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ABSTRACT

This report series defines and measures the "information activity" within the national economy. "Information activity" is defined to include those specific industries and occupations whose primary function is to produce, process, or transmit economically valuable information. Changes in the national labor force are analyzed over a 120-year span. This volume consists of a number of tables, including those that show trends in the labor force over time and National Income Accounts information. This is backup material to Chapters 4 and 9 of Volume I (IR 005 061). (Author/DAG)

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THE INFORMATION ECONOMY: National Income, Workforce, and Input-Output Accounts

Dr. Marc Uri Porat, with the assistance of Michael Rogers Rubin

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Any opinions, findings, conclusions, or recommendations expressed in this document are those of the author and do not necessarily reflect the views of the National Science Foundation or the Department of Commerce of the U.S. Government.

U.S. DEPARTMENT OF COMMERCE Juanita M. Kreps, Secretary

Jordan J. Baruch Assistant Secretary for Science and Technology

OFFICE OF TELECOMMUNICATIONS

John M. Richardson, Director

May 1977

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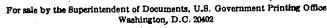
UNITED STATES DEPARTMENT OF COMMERCE OF TELECOMMUNICATIONS

STATEMENT OF MISSION

The mission of the Office of Telecommunications in the Department of Commerce is to assist the Department in fostering, serving, and promoting the nation's economic development and technological advancement by improving man's comprehension of telecommunication science and by assuring effective use and growth of the nation's telecommunication resources.

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- Acquires, analyzes, synthesizes, and disseminates information for the efficient use of the nation's telecommunication resources.
- Performs analysis, engineering, and related administrative functions responsive to the needs of the Director of the Office of Telecommunications Policy, Executive Office of the President, in the performance of his responsibilities for the management of the radio spectrum
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FOREWORD

Physics, a discipline at the heart of our last major technological revolution, yields a quotation that is highly appropriate to the present work:

When you can measure what you are speaking about, and express it in numbers, you know something about it; but when you cannot measure it, when you cannot express it in numbers, your knowledge is of a meager and unsatisfactory kind: it may be the beginning of knowledge, but you have scarcely, in your thoughts, advanced to the stage of science.

-- William Thomson, Lord Kelvin (1824-1907) English Physicist

Notions of yet another major revolution, one that will bring about a "post-industrial" society, have been in the air for some time now. Yet, few steps toward the measurement of this revolution's most important element -- information activities -- were taken until Dr. Porat began the investigation that is reported in these volumes. We might say, then, that this study, truly a seminal one, pushes our knowledge of an information economy closer to "the stage of science."

This report proposes a conceptual framework for defining the information activities of an advanced economy, and prescribes an objective way to quantify them. Without such definition and measurement, I cannot imagine how we can formulate sound policy for an information society. The fact that so many information policy issues are pressing upon us adds to the pertinence of the research.

It may strike some as odd that the Office of Telecommunications, an organization concerned principally with telecommunications technology, would offer a report dealing with the whole range of information activities. The explanation lies in the need to view telecommunications in the larger context of its effects on other aspects of society. Satellite networks, for example, can be an instrument for regional economic development. Retail terminals can perform banking functions. And electronic communications is steadily diminishing the volume of traditional postal delivery. Thus, it is essential to appreciate how issues internal to telecommunications influence other kinds of information activities. Conversely, ways of achieving broader policy objectives might well produce decisions affecting telecommunications services. I have in mind such goals as the provision of equal access to high-quality health care or the expansion of continuing education, both of which obviously can be facilitated by the electronic media. To the extent that telecommunications and its sister technology, computers, are at the core of the infrastructure of the information society, their relationships with the larger society are every bit as important as their internal problems.

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The concepts and methods described in these volumes have begun to attract wide national and international notice. They are cited by officials of the Congress, the Executive Branch, and the regulatory agencies. They are being studied by international organizations. Yet, in spite of all the acknowledgments, this study constitutes only a point of departure toward a more complete understanding of the information society. We must devise and test alternative representations of the information economy against this one. We still have to settle on the best model, achieve comparability among models in other countries, produce trend data, and construct the methods for predicting consequences of alternative policy decisions.

I am confident that this additional work will be taken up by others. Moreover, I believe that their efforts will sharpen these concepts into a new tool, a tool of great value because of its clear relevance to the course of our world's complex societies.

John M. Richardson Director

INTRODUCTORY NOTE

Science, commerce and technology are inextricably interconnected in American society. It is therefore fitting that this effort to clarify one aspect of their impact was a joint project of the National Science Foundation and the Department of Commerce. The National Science Foundation provided the funds needed to undertake the project, the Department of Commerce the institutional setting in which to conduct it. The bond was cemented through a common concern with telecommunications technologies and policies.

We were particularly motivated by the prospect of increasing the substance surrounding fascinating concepts about the changing nature of American society. The evident acceleration in invention and application of information technologies and the social and economic change which accompanies this development, is directly relevant to a wide range of policy concerns.

The findings of this research are provocative and concise. We trust that they will stimulate and illuminate public discussion. The report describes some of the ways in which the findings have been applied thus far. Yet it is clear that this work is an incremental contribution and that much remains to be accomplished. Work has begun in the U.S. and abroad to extend the data base developed in the project. I extend an invitation to readers to contribute their reactions to the report and their ideas on further research.

Charles N. Brownstein
Program Manager
Telecommunications Policy
Research Program
National Science Foundation, 1977

v)

SYNOPSIS

THE INFORMATION ECONOMY Report Series totals nine volumes, each of which has its own subtitle.

77-12(1) -- THE INFORMATION ECONOMY: Definition and Measurement -- Dr. Marc Uri Porat -- 265 pp.

This volume contains the executive summary and the major findings of the study. It defines information activity and includes a formal set of National Income and Product Accounts for the primary and secondary information sectors, with input-output matrices for both of these sectors. In addition, it specifies the information-related occupations of both the primary and secondary information sectors; this includes a consideration of private and public bureaucracies. Finally, it presents lists of information policy issues pertaining to industry, government, and the home and makes two recommendations as to how the Federal government might meet the public policy issues posed by the expansion of our information activity.

77-12(2) -- THE INFORMATION ECONOMY: Sources and Methods for Measuring the Primary Information Sector (Detailed Industry Reports) -- Dr. Marc Uri Porat -- 188 pp.

This volume presents reports of the 25 major industries that compose the primary information sector. The volume's classification scheme is based on the Bureau of Economic Analysis Input-Output Matrix. Each industry is discussed in great detail. The discussions include the reasoning behind considering the industry as part of the primary information sector, a breakdown of the subordinate industries that compose the larger industrial category, a narrative of the informational aspects of the industry, and a report of the final demand and value-added components. The service, manufacturing, and construction sectors of the economy are considered.

We call to the reader's attention that the most critical part of the entire report series is to be found in the first two volumes. The remaining volumes are essentially supplements to and extensions of Volumes 1 and 2.

77-12(3) -- THE INFORMATION ECONOMY: The Interindustry Transactions Matrices (1967)
-- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 58 pp.

Volume 3 consists of input-output tables showing transactions in the 1967 economy. One table shows a breakout of 108 industries, another of 190 industries.

77-12(4) -- THE INFORMATION ECONOMY: The Technology Matrices (1967) -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 117 pp.

Volume 4 includes A-coefficient matrices for the 1967 economy at both the 108 and 190 levels of detail.



77-12(5) -- THE INFORMATION ECONOMY: The "Total Effect" Matrices (1967) -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 117 pp.

This volume contains the 1967 Inverse Matrices with detail at both the 108 and 190 industry levels.

Volumes 3 through 5 contain backup information to Chapters 6 and 10 of Volume 1.

77-12(6) -- THE INFORMATION ECONOMY: The Labor Income by Industry Matrix of Employee Compensation (1967) -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 100 pp.

Volume 6 consists of a table of 422 occupations and 108 industries showing the wages paid by each industry to each occupation in 1967.

77-12(7) -- THE INFORMATION ECONOMY: The Labor Income by Industry Matrix of Employee Compensation (1970) -- Dr. Marc Uri Porat, with the assistance of Michael R. Rubin -- 91 pp.

Volume 7 consists of a table of 422 occupations and 108 industries showing the wages paid by each industry to each occupation in 1970.

Volumes 6 and 7 contain backup information to Chapter 7 of Volume 1.

77-12(8) -- THE INFORMATION ECONOMY: National Income, Workforce, and Input-Output Accounts -- Dr. Marc Uzi Porat, with the assistance of Michael R. Rubin -- 91 pp.

This volume contains backup material to Chapters 4 and 9 of Volume 1. It consists of a number of tables, including those that show trends in the labor force over time and National Income Accounts information.

77-12(9) -- THE INFORMATION ECONOMY: User's Guide to the Complete Database -- Michael R. Rubin -- 71 pp.

This volume is a user's guide to the computer model which describes the information elements of the economy in the benchmark year 1967. The database is available on magnetic tape through the National Technical Information Service, Springfield, Virginia, Accession No. PB-264 172, titled "The Information Economy."

ACKNOWLEDGMENTS

This report was prepared with partial support of National Science Foundation grant No. APR-7609015. Any opinions, findings, conclusions, or recommendations expressed in this document are those of the author and do not necessarily reflect the views of the National Science Foundation.

A dissertation entitled The Information Economy is available from: University Microfilms, 300 N. Zeeb Road, Ann Arbor, Michigan 48106 (Attn: Dissertation copies), Accession No. 77-7147.

To Fritz Machlup and Daniel Bell I owe a deep intellectual debt for plowing the field so thoroughly and proficiently before me. After their contribution, mine was simply to harvest the crop that they had planted; and there is ample left for future researchers who wish to embark on this new line of research.

My early ideas, ill formed and overly ambitious, were skillfully and gently molded by the able hands of Professors Edwin Parker and James Rosse. They had the good sense to say both yes and no at just the right moments, and were always accessible when I needed guidance. The last and most critical year of this work was made possible through the good graces of Dr. John Richardson, Director of the Office of Telecommunications, who gave freely of his encouragement and support, and who smoothed the bureaucratic wrinkles when they seemed to mount like tidal waves. He understood the policy implications of this work before most.

Generous financial support from the National Science Foundation was the lifeblood for this project. Dr. Charles Brownstein (RANN/Division of Advanced Productivity Research and Technology) managed the project most professionally, and his advice and consent were very helpful and greatly appreciated.

Over the course of the project, I drew heavily on the talents and energies of many people, and to them I extend a special gratitude. Michael Rubin, who joined me nearly three years ago, single handedly slew the computer dragon. His all night sessions outnumbered mine by two to one, and resulted in Chapters 6, 7, & 10. Joseph Kashi assembled most of the government and labor data of Chapters 7 and 8. Deborah Semb and Barbara Mikelson delivered the National Income and Product Accounts and time series of Chapters 4 and 5.

From the thousand and one production nightmares, I was rescued by the skill and perseverance of Fran Sills. She administered endless drafts of tables and text with dispatch and poise, working many evenings and weekends at top efficiency. Her performance in this project was superb. Glynetta Perrymore endured the dark ages of word processing through five complete drafts of the text. Edith Uunila thoroughly and competently helped with the final stages of proofreading and editing.

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Along the road, many kind people lent me a helping hand. At the Burgau of Economic Analysis, I was given free reign by Philip Ritz, Chief of the Interindustry Division. Carolyn Knapp and Elizabeth Spaulding helped with the more obscure procedures used in the national accounts. Howard Schreier helped with programming the final demand and value added tables.

At the Bureau of Labor Statistics, I extend my thanks to Charles Bowman and the input-output staff of the Economic Growth Project. The early labor data were provided by John Shew and Karen Hassmer, and their help is acknowledged.

Although I gratefully share the credit with my friends and colleagues, I relieve them of any responsibility for remaining errors.

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APPENDICES FOUR AND NINE

These appendices contain the following backup material to Chapters 4 and 9 of Volume I:

- (i) A detailed final demand table underlying the accounts shown in Chapter 4 (Table 1).
- (ii) A detailed value-added table, also underlying the accounts shown in Chapter 4 (Table 2).

The first two tables are presented in a way that enables other researchers to apply different definitions of the information sector, and to trace the impact on the accounts.1

- (iii) An elaboration of net exports originating in the primary information industries.
 - (iv) A detailed final demand table underlying the accounts shown in Chapter 9.
 - (v) A detailed value-added table, also underlying the accounts shown in Chapter 9.
 - (vi) Additional data on the secondary national income time series.

APPENDIX FOUR

Final Demand and Value Added

The final demand and value added tables are taken from the 1967 Input-Output study at the 484 order level conducted by the Bureau of Economic Analysis.

Elaboration of Net Exports

The consolidated accounts stand as summaries of the major final demand and gross product originating sectors. However, some further elaboration might be useful for net exports.

Trade in information goods and services accounted for a \$3 billion surplus in 1967 -- some 59.6% of the total \$5 billion trade surplus in 1967. Information as a whole was not a large gross item in the U.S. trade picture, but it was clearly a major net exporter. Table 3 shows an overview of trade in information goods and services.



TABLE 1: COMPONENTS OF FINAL DEMAND AT THE 6-DIGIT INPUT-OUTPUT LEVEL, 1967

			(\$ Mill	ions 1967)			
	PERSONAL CONSUMPTION EXPENDITURES	GROSS CAPITAL FORMATION	net Inventory Change	NET EXPORTS	FEDERAL PURCHASES OF GOODS & SVCS	STATE & LOCAL PURCHASES OF GOODS & SVCS	TOTAL INFORMATION FINAL DEMAND
Total Primary Information Ind Total Private Sector Total Public Sector	83,752.0 82,666.8 1,085.2	19,957.8 19,957.8 0	1,625.4 1,625.4 0	2,942.6 2,944.3 - 1.7	26,795.6 16,242.4 10,503.2	39,512.2 12,356.2 27,156.0	174,585.6 135,842.9 38,742.7
CONSTRUCTION New office buildings New education buildings New tel & tel R&M office buildings R&M tel & tel	0 0 0 0 0	5,430.9 2,805.9 987.0 1,638.0 0	0 0 0 0	2.2 2.2 0 0 0	407.5 199.0 22.0 0 186.5	7,410.3 743.0 5,430.0 0 1,237.3	13,250.9 3,750.1 6,439.0 1,638.0 1,423.8
Wood office furniture Metal office furniture Metal office furniture Public building furniture Paper mill products Envelopes Coated & glazed paper Newspapers Periodicals Book publishing Book publishing Misc publishing Commercial printing Manifold business forms Blankbooks & binders Greeting cards Engraving & plate printing Bookbinding & related work Typesetting Photoengraving Electrotyping & stereotyping Paper industry machines Printing trades machines Electronic computing equipment Calculating & accounting mach Typewriters Scales and balances	9,266.6 0 0 16.4 8.6 25.1 1,443.6 750.1 1,137.6 0 127.4 0 80.2 384.7 31.8 0 0 0 0 0 0 0 0 0 0 0 0 0	10,086.5 122.3 444.8 61.4 0 0 0 0 0 0 0 0 0 0 0 0 0	1,559.6 2.8 8.5 15.0 73.5 30.3 2.9 1.6 7.0 127.0 - 2.6 - 0.6 101.7 2.8 19.7 35.6 2.7 .4 1.1 2 3 35.0 102.1 8.6 16.7 2.5	1,102.2 -6.6 -454.3 .1 2.9 1.3 66.0 137.0 0 4.9 14.6 0 1.8 1.9 1.8 8.5 70.1 343.7 97.3 32.0 11.0	8,216.6 8.2 30.9 7.1 18.0 12.4 4.7 1.4 1.0 3.9 26.6 .6 173.2 0 	2.4 50.0 0 0 0 5.9 7.3 47.8 63.7 4.8	32,001.6 {977.8 -294.7 84.9 35.6 1,452.3 850.1 2,032.6 39.6 134.2 407.8 2.8 101.7 422.2 {53.8 615.9 3,155.7 673.8 484.0 129.5
Office machines, nec Electric measuring instruments Radio and TV receiving sets	0	224.4 629.0 114.5	25.6 19.8 84.4		67.4 226.4	36.5 13.0 23.6	411.3 1,010.5 3,252.7

					· · ·			
	· · · · · · · · · · · · · · · · · · ·	PERSONAL	GROSS	NET		FEDERAL	STATE & LOCAL	
		CONSUMPTION	CAPITAL	INVENTORY	net	FURCHASES OF	PURCHASES OF	INFORMATION
	· · · · · · · · · · · · · · · · · · ·	EXPENDITURES	FORMATION	CHANGE	EXPORTS	GOODS & SVCS	GOODS & SVCS	FINAL DEMAND
-					:		0.3	. 117 1
	Phonograph records	214.3	0	20.7	11.1	2.8	8.3 .2	257.2 1,755.2
	Tel & tel equipment	0	1,455.6	78.0	16.6	204.8		
	Radio & TV comm. equipment	.52.4	1,366.7	417.0	306.5	5,312.7	86.9	7,542.2
	Electron tubes	50.4	0	- 14.1	- 17.3		2.9	232.6
	Semiconductors	0	0	42.4	97.9	44.6	0	184.9
	Electronic components, nec	120.3	18.3	110.8	83.2	384.4	10.0	727.0
	X-ray apparatus & tubes	0	133.3	7.2	.9.4	11.2	13.9	175.0
	Engineering & sci instruments	, 0	122.1	41.6	129.4	372.3	53.2	718.6
	Mechanical measuring device	25.6	491.9	30.0	246.5	76.7	13.9	844.6
	Auto temperature controls	0 /	0	2.1	25.2	6.2	0	33.5
	Auto temperature concross :	389.8	.6	4.0	- 63.2	93.0	3.5	427.7
	Watches & clocks Optical instruments & lenses	37.5	226.6	7.4	- 34.5	58.9	15.3	311.2
	Optical instruments a renses	675.7	693.4	70.6	188.3	323.0	128.7	2,079.7
	Photographic equip & suppl	147.9	77.7	1.7		. 0	. 0	•
	Pens & mech pencils	49.9		2.9	r	0	23.1	ſ
	Lead pencils & art goods	43.3		2.3	19.2	0	. 0.	257.2
	Marking devices	,v 5.8	0	1.4]*/`*	Ô	0	Į
	Carbon paper & inked ribbon		241.4	6.4	1.3	2.5	- 6.5	245.1
	Signs & advertising displays	0	241,4	n		175.7	294.0	469.7
	Office supplies	U	ų.		٧	4,000		
	NFORMATION SERVICES	73,400.2	4,440.4	~ 65.8	1,839.9	7,668.3	3,175.8	90,560.4
	Communication, exc Radio, TV	7,836.8	1,095.7	- : 0	7.1	543.5	464.1	9,947.2
	Radio & TV broadcasting	,,,,,,,,,	0	. 0	5	0	7.2	6.7
	Banking	8,384.3	04	_	69.9	34.6 ·	0	8,488.8
	Credit agencies	2,350.0	ď	Ò	0	- 5.8	0	2,344.2
	Security & commodity broker	2,149.1	Ô	0	Ô	. 0	107.9	2,257.0
	Insurance carriers	11,675.6	n	. 0	- 80.8	16.9	261.7	11,873.4
	Insurance agents & brokers	11,013.0	. , ,	O	0	.0	0	· 1,
	Real estate Commissions	321.7	2,100.0	۵ 0	179.5	229.3	485.8	73,316.3
	Pers repair services	1,413.7	P1+40.0		0	. 0	C	_ ∯ ₁ ,413.7 ∘
	Misc business services	712.9	· · · · · · · · · · · · · · · · · · ·	0	94.7	1,283.4	891.4	2,982.4
	Advertising	141.6	Ô	ē.	31.7	1.4	30.0	40417
	Misc professional services	3,342.1	n	ů.	298.3	590.2	330.8	4,561.4
	Motion pictures	1,128.2	n	- 56.8	256.4	87.1	31.5	1,446.4
	Amusement & recreation	272:4	Ū.	0	0	1 1 D	0	272.4
	Doctors & dentists	6,543.6	. 0	. 0.	. 0	33.5	252.6	6,829.7
	Other medic & health services	34.1	0	Ď	Ď	1.	. 0	34.1
	Educational services	6,458.9		. 0	1 0	1,358.9	139.3	7,957.1
	Nonprofit organizations	7,053.1	n	/ 0	Ŏ	640.1	: (50.9	7,744.1
	Royalties unaffiliated	1,022.7		ŏ	293.4	0	. 0	293.4
		Ů.	, U	n	0	2,609.9	. 0 .	2,609.9
	Net RED . A	6,376.9	981.1	122.6	690.2	245.3	122.6	16,007.5
	Wholesale trade	7,205.2	263.6	0	4,4.	0	0	•
	Retail trade	1140314	403.0			-		
	n _a				, ,	14 542 7	27 156 n	38,742.7
3	OVERNMENTS	1,085.2	· <u> </u>	<u>:0</u>	<u>-1.1</u>	10,503.2	<u>27,156.0</u>	
	Primary wages Federal governme	ent 0	0	6	, 0	10,231.9	0- 16 610 6	10,231.9
	Education wages State and loca	9T. 0	Q	. 0	-1.7	271.3	26,928.0 228.0	26,928.0 1,592.0
	Postal service	1,085.2			· -41/			1,582.8

TABLE 2: COMPONENTS OF VALUE ADDED AT THE 6-DIGIT INPUT-OUTPUT LEVEL, 1967

				(\$ Millions	1, 1967)		
		::MPLOYEE COMPENSATION	nct Interest	CAPITAL CONSUMPTION ALLOWANCES	INDIRECT BUSINESS TAXES	PROFIT- TYPE INCOME	TOTAL INFORMATION VALUE ADDED
Total Primary Information In Total Private Sector	ndustries	136,488 94,895	3,03 <u>1</u> 3,031	12,151 12,151	11,555 11,503 52	42,862 43,808 - 946	200,025 159,326 40,699
Total Public Sector		41,593	0	u			
CONSTRUCTION	G 1	6,972.4	28.8	225.1	99.6	1,200.6	8,527.0
New office buildings New education buildings	*•	3,824.6	28.8	225.1	73.6	702.9	4,855.0
New tel & tel R&M office buildings		3,147.8	0	0	26.0	497.7	3,671.2
R&M tel & tel	W -	ı		, ,			
INFORMATION GOODS		24,449.0	26B.0	1,942.0 2.3	410.0	5,622.0 25.1	32,691.0 73.8
Wood office furniture Metal office furniture		249.4	1.6	16.6	6.6	53.1	327.3
Public building furniture		108.5	.6	4.5	2.2 34.0	10.7 11.1	126.5 1,158.2
Paper mill products	a.	854.6 188.3	32.3 1.3	226.2	3.5	6.0	
Envelopes Coated & glazed paper	•	103.2	1.1	10.6	3.8	52.9	
Newspapers	+	2,288.7	3,3	183.6	27.3	707.6	
Periodicals		933.9	1.2	57.1	17.9	140.9	1,151.0
Book publishing		448.2	3.6	24.2	8.3	308.1	
Book printing	1	315.6	1.2	29.3	4.2		
Misc publishing	•	255.7	1.4	. 8.9	13.2	72.0	351.2
Commercial printing		1,972.0	4.6	161.6	31.2	304.3	
Manifold business forms		417.2	1.2	35.0	8.3	50.9	
Blankbooks & binders	•	199.7	.4	10.7	3:8		
Greeting cards	4	198.5	.7	10.9	15.5	71.2	
Engraving & plate printing	.g	71.9	.2	4.2	.8	7.4	
Bookbinding & related wor	rk	193.4	.4	7.8	1.5		206.8
Typesetting	*	245.6	.5`	12.0	1.7	39.6 25.3	
Photoengraving	•	148.9	.3	6.3	1.0		
Electrotyping & stereotyp	ping	36.9	.1	6.6	.3	5.3 5.8	
Paper industry machines		48.9	.5	5.0	1,1	79.5	
Printing trades machines		275.1	3.0	24.4	5.0	743.6	
Electronic computing equi		731.4	19.4	65.5	16.1 . 4.5		
Calculating & accounting	mach	261.0	5.2	27.8	3.2		
Typewriters "	1	278.7	4.6	26.4 3.8	.4	23.4	
Scales and balances		50.0	.9		3.6	18.1	
Office machines, nec	•	240.8	3.4	30.5	8.0		
Electric measuring instru Radio & receiving sets	uments	502.0 937.1	23.4 28.3	50.1	16.9	183.	

***************************************	COMPENSATION	net Interest	CONSUMPTION ALLOWANCES	BUSINESS TAXES	TYPE INCOME	INFORMATION VALUE ADDED
1	/	<u> </u>				
Phonograph records	45.8	3.7	8.9	2.5	48.3	109.2
Tel & tel equipment	1,074.9	5.6	115.3	18.4	280.6	1,494.8
Radio & TV comm. equipment	4,450.3	20.1	175.9	47.6	298.0	4,991.9
Electron tubes	391.4	12.3	49,4	B.7	323.7	785.5
Semiconductors	. 540.2	10.9	54.0	8.5	63.8	677.4
Electronic components, nec	1,776.0	34.7	120.5		0.2.9	
X-ray apparatus & tubes	123.2	1.1	3.4	1.2	-17.8	111.1
Engineering & sci instruments	490.2	7.0	29.0	6.3	-53.4	479.1
Mechanical measuring device	702.6	11.0	48.8		-41.4	731.4
Auto temperature controls	329.1	4.7	22.5	4.1	-18.5	
Watches & clocks	113.2	5.3	16.07	3.3	54.2	
Optical instruments & lenses	173.1	.5	14.1	1.9	₹31.9	
Photographic equip & suppl	1,001.5	2.5	175.7	18.9	1,033.4	2,232.0
Pens & mech pencils	82.6	.6	4.9	1.5	23.2	112.8
Lead pencils & art goods	55.6	.3	3.1	.9	3.3	63,2
Marking devices	70.9	.4	3.2	1.1	9,9	85.5
Carbon paper & inked ribbon	60.9	.4	3.1	1.0	-6.7	72.1
Signs & advertising displays	366.9	2.3	13.9	3.9	50.6	437.6
Office supplies	Ċ	0	0	0	.0	0
	45.181.6	" - 500 A.	. n.004.6	10 002 0	26 006 N	118,108.0
NFORMATION SERVICES	63,474.0	<u>-3,328.0</u>	9,984.0	10,993.0	36,985.0	16,029.0
Communication, exc Radio, TV	6,641.0	645.0	2,279.0	2,330.0	4,134.0	
Radio & TV broadcasting	1,062.0	46.0	183.0	31.0	257:9	
Banking	5,875.0	-1,268.0	589.0	373.6	6,160.9	
Credit agencies	2,581.0	-5,565.2	359.1	73.2	1,762.2	
Security & commodity broker	1,540.6	- 146.3	31.3	340.9	1,012.9	
Insurance carriers	7,237.8	- 872.8		1,108.6	1,023.6	
Insurance agents & brokers	1,729.0	48.0	115.0	21.4	1,667.1	
Real estate	1,233.8	3,581.0		3,104.0	4,177.2	
Pers repair services	512.4	3.2	86.0	20.0		
Misc business services	6,260.2	55.1	936.5	85.8	1,771.4	
Advertising	1,142.6	*	85.8	. 22.2	333.1	
Misc professional services	5,161.7	0	345.0	152.0	6,524.4	
Motion pictures	1,038.0	, 31.0	201.8	121.0	133.0	
Amusement & recreation	285.1	111.4	55.9	,94.2		
Doctors & dentists	996.3	33.4	158.2	59.3	4,227.5	
Other medic & health services	162.4	2.1	9.3	2.7		
Educational services	4,902.0	11.0	42.0	20.0		
Nonprofit organizations	6,348.3	0	0 .	.0	0	6,318.3
Wholesale trade	4,533.4	78.8	469.3		1,523.4	
Retail trade	4,232.0	64.1	411.1	1,053.0	1,708.6	7,468.8
I AC I A THURST THE	41,593.3	٨	, h	, E1 E	-946.0	40,659.0
	41,333.3			<u>51.6</u>		
GOVERNMENTS		7		A	n	10.231.9
Primary wages Federal government Education wages State and local	10,231.9 26,928.0	0		U.	0	10,23).9 26,928.0

TABLE 3: OVERVIEW OF TRADE IN INFORMATION GOODS AND SERVICES

(\$ Millions, 1967)

EXPORTS	- IMPORTS	NET BALANCE
3,134	2,031	1,103
i,913	369	1,544
398	104	294
5,445	2,504	2,941
	3,134 1,913 398	3,134 2,031 1,913 369 398 104 5,445 2,504

The largest net exporter, shown in Table 4, was the electronic computer industry, followed closely by the radio and television equipment industry. Note, however, that radio and TV sets (as distinct from broadcasting equipment) were among the heaviest net importers in the primary information sector.

TABLE 4: INFORMATION TRAFE BALANCES BY INDUSTRY (OVERVIEW)

	(\$ Millions, 1967)
SELECTED INDUSTRIES	NET BALANCE
Electronic computers (343.7
Radio & television equipment	306.5
Legal and accounting services	298.3
Morion pictures	256.4 246.5
Mechanical measuring instruments	188.3
Photographic equipment & supplies	137.0
Book publishing	129.4
Engineering & scientific equipment	97.3
Calculating & accounting machines	97.9
Semiconductors Banking services	69.9
	- 63.2
Watches & clocks	- 80.8
Insurance carriers (fees on shipping)	-431.1
Radio & TV sets Paper mill products	-804.0
Paper mili produces	
	•

Source: B2A Worktape and data courtesy of Mr. Magnon, foreign trade analyst.

The exportation of "culture," as represented by the motion picture and book publishing industries, were large single items (\$393 million together), but quite small relative to total exports.

Table 5 shows a detailed breakdown of imports and exports in the information sector. This information is a summary of the detailed (6-digit) industries discussed in Appendix 3 (Vol. 2).

TABLE 5: NET EXPORTS OF INFORMATION GOODS AND SERVICES (DETAIL)

(Millions, 1967) NET TRADE IMPORT'S BALANCE **EXPORTS** 2940.8 2503.7 5444.5 Total Trade Balance 1102.6 2031.1 \$3133.7 2.2 12.9 15.1 Office bldgs & structures 17.7 -6.6 11.1 Office furniture -454.3 525.7 71.4 Paper mill products .1 2.9 . 3 . 4 Envelopes 9.8 6.9 Paper 1.8 1.3 3.1 Newspapers 66.0 66.0 ---Periodicals 137.0 . 8 Book publishing 137.8 4.9 4.9 ---Misc Publishing 12.5 14.6 27.1 Commercial printing 2.5 .0 Business forms, binders 2.5 1.9 1.9 Greeting cards 1.8 . 8 2.6 Printing trades service Paper ind. machinery 20.7 12.2 8.5 25.2 Automatic temp controls 25.2 93.1 23.0 70.1 Printing trades machinery 134.5/ 343.7 478.2 Electronic computing equipment 97.3 15.9 Calculating & accounting mach 113.2 .9 32.0 32.9 Typewriters 2.2 11.0 13.2 Scales & balances 57.4 14.8 Office machines, nec 72.2 122.3 43.9 166.2 Electric measuring instruments -431.1 518-2 87.1 Radio & TV receiving sets 11.1 11.1 Phonograph records 30.8 16.6 Telephone & telegraph apparatus 47.4 306.5 434.6 128.1 Radio & TV communication equip -17.3 79.5 62.2 Electron tubes 97,9 53.9 151.8 Semiconductors 83.2 158.0 74.8 Electronic components, nec 19.8 9- 4 29.2 X-ray apparatus 129.4 .32.7 162.1 Engr & scientific instruments 246.5 16.9 . Mech measuring devices 263.4 73.4 10.2 Watches & clocks 64.9 34.5 188.3 30.4 Optical ins and lenses 94.6 Photographic equip & supplies 282.9 19.2 32.9 13.7 Pens & mechanical pencils 1.8 Signs & advertising displays 1838.2 472.6 2310.8 Services 7.1 132.5139.6 Telecommunications -.5 .0 . 5 Radio & TV broadcasting 69.9 69.9 Banking 101.3 -80.9 20.5 Insurance carriers 179.5 ---179.5 Real estate (94.7 94.7 Misc business service 31.7 31.7 Advertising 298.3 5.9 304.2 Misc professional service 64.2 256.4 320.6 Motion pictures 293.4 397.6 Royalties unaffiliated 104.2 18.4 -1.7 16.7 Post Office revenue 690.2 45.6 W&R trade margins 735.8

Source: BEA I-O worktape and BEA foreign trade analyst.

Royalties and Management Fees

. One of the most interesting export items is the direct sale of "intellectual property": pure information in the form of copyrights, patent or process rights, formulas, designs, trademarks, franchises and manufacturing rights. In some cases, "show how" is sold indirectly in the form of management fees; in other cases it is embodied in a process or a technique. fees are usually collected by the home company from its subsidiaries or affiliates. In return for the fee, a foreign subsidiary may receive only the right to use a process; or it may enjoy extensive technical, managerial, and marketing assistance. Most forms of royalty payments represent technology transfer in some degree. A review on the subject by Teplin² points out that the export statistics understate royalty exports in two respects. First, firms do not always enter formal licensing arrangements with their foreign subsidiaries; hence, no transactions are recorded in the accounts. Second, the price of "technology transfer" type items is subject to wide variation in how it is determined. Some firms may choose to set low royalty payments, but retain high levels of profits in the subsidiary if the foreign country's tax rate is lower than the domestic rate. Other firms may set very low prices for their patents in exchange for an arrangement whereby the receiving firm agrees not to compete with the U.S. firm in the domestic market.³ cross-licensing arrangements, firms may prefer to barter their knowledge rather than set a price for the process.

Table 6 shows a time series on all transactions involving copyrights, film rentals, and management fees. The time series is only partially complete (1956-1973) due to lack of consistent primary data. The U.S. net trade balance in pure information exports has steadily increased from \$510 million in 1956 to over \$3 billion by 1974. The majority of the exports were between U.S. firms and their affiliates (foreign direct investment). Film and television rentals played a relatively minor role as an export item, and no role at all as an import item.

Friedlin and Lupo gathered data on royalty and management fee exports broken down by region. In particular, they produced detailed estimates of developed countries' (DC) and less-developed countries' (LDC) purchases of intellectual property, royalties, and management fees.



*. *	•		(\$ Millions, 1967)		· · · · · · · · · · · · · · · · · · ·	
	FILM ROYALTIES ^a & RENTALS	FOREIGN DIRECT INVESTMENT-RELATED TRANSACTIONS	TRANSACTIONS WITH UNAFFILIATED FOREIGN RESIDENTS			·
YEAR	NET BALANCE	EXPORTS IMPORTS (RECEIPTS) (PAYMENTS)	EXPORTS IMPOR (RECEIPTS) (PAYME		NET TRADE BALANCE	
1946 1947 1948 1949 1950 1951 1952 1953 1956 1957 1958 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971	120 142 162 177 192 215 209 208 197 194 187 199 220 229 257 275 299 301 300 288 299 296 339 324	64 10 77 11 83 11 100 10 126 10 130 20 130 24 128 22 136 23 158 31 229 38 238 36 245 34 349 32 403 35 463 43 580 57 660 61 756 67 924 68 972 64 1123 62 1245 80 1356 101 1561 111 1757 118 1911 155 2309 209 2785 219	133 2: 140 2: 168 2: 166 2: 247 4! 244 4: 256 4. 273 5: 301 6: 335 6: 353 7: 393 10 437 10 486 12 573 11 618 12 655 13 725 17 781 18	2 5 6 6 7 6 6 4 4 6 6 9 6	510 528 551 649 762 817 955 1050 1187 1399 1484 1651 1796 1909 2208 2430 2611 2973	

appdates for 1973 and 1974 courtesy of the Bureau of Economic Analysis memo, June 1975.

Source: M. Teplin, "U.S. International Transactions in Royalties and Fees: Their Relationship to the Transfer of Technology", <u>Survey of Current Business</u>, December 1973, Vol. 53, #12

bshows transactions between U.S.-based firms and their foreign affiliates or subsidiaries.

CShows transactions between U.S. firms and foreign-based firms.

dCourtesy of Bureau of Economic Analysis, balance of payments analyst.

Table 7 summarizes the data in a way that allows direct comparison of the LDC's and DC's. Only 1973 is shown in detail, since the time-series breakdowns generate more data than can be easily comprehended.

Developed countries (Canada, Europe, Australia, New Zealand, South Africa, Japan, Great Britain) purchased 77% of all royalty and management fees. Less developed countries (Latin America, Africa, Middle East, Asia, Pacific nations and others not specified) purchased only 23% of all U.S. "knowledge exports." Nearly 55% of all transactions involved royalty payments by DC's to the U.S., as compared to only 9% by the LDC's. Another 22% of all transactions were for management fees paid by DC's, compared to 14% by LDC's. The United States is clearly in the business of selling royalties to developed countries -- countries which already have the technocratic and intellectual support system to demand and successfully utilize information products. And the United States is clearly not in the business of selling pure information, such as know-how and show-how, to the LDC's. As we shall shortly discover, U.S. multinationals are apparently more interested in setting up direct affiliates and withdrawing branch earnings than in turning information over to LDC's. Whereas in the DC's the ratio of royalties to management fees is 2 1/2 to T, the ratio in the LEC's is 1 1/2 to 1 in the opposite direction. The U.S. sellers of information products (royalties) do not turn over patented process information and techniques; rather, they hire out U.S. consultants and managers to "assist" LDC's in their domestic operation. This assistance, which is rewarded with management fees paid to U.S. owners of the foreign affiliate, results in the basic knowledge (i.e., a patent) remaining in the hands of the patent owner, not the host country.

Table 7 also shows us that the DC's overwhelmingly purchase royalties originating in U.S. manufacturing industries. Some 68% of all royalty payments are for manufacturing processes, techniques, patents, and franchises. A relatively small - percentage of all "knowledge" imports if for cultural information transferred through film. The DC's spend four times as much for U.S. technological information than for film and TV rights. "cultural imperialism" implied in massive intrusions of U.S. lifestyle, tasts, expectations and values into foreign countries is more prevalent in LDC's if a dollar measure is at all appropriate. The LDC's spent 28% of their total "knowledge" purchases on film and TV, compared to 16% for the DC's. However, in absolute dollars, the developed countries outspent the less developed countries by This table says nothing about the effects of such knowledge imports, but it does suggest that technology transfer (in the form of process information) should not be ignored as a source of cultural exportation. The organization of a factory or a production system defines lifestyles and political arrangements much as a film tends to formulate images and values.

TABLE 7: BREAKDOWN OF ROYALTY AND MANAGEMENT FEE RECEIPTS BY REGION AND INDUSTRY: 1973

(6. Millions, 1973)

5 g		(3	"WITTIONS, 13	1,21	
AREA OF OPERATION § INDUSTRY MEMBERSHIP OF U.S. MULTINATIONAL RECEIVING PAYMENTS	ROYALTIES	PERCENT	MANAGEMENT FEES	PERCENT	RECEIPTS AS % OF TOTAL ROYALTIES & FEES
	,		:		
DEVELOPED COUNTRIES	,		<u>.</u>		
Petroleum	6	0.4	123	19.3	5.9
Manufacturing	1054	67.6	326	51.9	63.2
Trade	173	11.1	31 🖖	4.8,	9.3
Film	248	16.0	0	0	11.4
Other	<u>76</u>	4.9	147	23.5	10.2
Total	1557	100.0	627	100.0	100.0
* *		· · · · · · · · · · · · · · · · · · ·		,	
LESS DEVELOPED COUNTRIES	•	. •		1, 1	
Petroleum	22	8.2	130	33.7	23.2
Manufacturing	110	40.7	80	20.7	29.0
Trade	23	8.5	36	9.3	9.0
Film	76	28.2	0	0	11.6
Other	38	14.1	139	36.0	27.0
Total .	269 ,	100.0	385	100.0	100.0
TOUR DOUGH MAN		,			
TOTAL WORLD ROYALTY PAYMENTS TO U.S. INDS.		. "			
PAYMENTS TO U.S. INDS.	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1				6
Developed Countries		54.8		22.1	76.9
Less-Dev. Countries		<u>° 9.5</u>		13.6	23.1
				י פר	100.0
Total	· .	64.3		35.7	100.0
•				•	4
	La constitution of the con				

^aPercentages may not sum to 100% due to rounding error.

Source: Adapted from J. N. Friedlin and L. A. Lupo, "U.S. Direct Investments Abroad in 1973", Survey of Current Business, Part II, August 1974. See Tables 11 12 for primary data.

Another interesting statistic buried in Table 7 is that some 34% of all management fees paid by LDC's were for services sold to petroleum industries, whereas only 19% of the DC's management fees went to U.S. petroleum industries. Over 36% of the LDC's purchases were made by governments, defense establishments, and financial institutions. 'Although LDC's bought more royalty-type knowledge than management-type knowledge, their reliance on direct management of home firms by foreigners was much greater than shown by the DC's.

To gain some appreciation of why U.S. firms operate differently in the two economic regions, consider the rates of return displayed in Table 8. These figures are adapted from Friedlin and Lupo; unfortunately, they have only been computed for the years 1971-1973.

The table shows the ratio of reinvested earnings plus foreign withholding taxes to total earnings, broken down by region. The sum of the first two items -- reinvested earnings and taxes -- is a measure of the gross profits that remain in the host country. The other two items -- dividends and branch earnings -- may remain in the host country, but are free to come back to the U.S. home firm.

TABLE 8: REINVESTED PROFITS AS PERCENTAGE OF TOTAL MULTINATIONAL PROFITS

		<u>/ </u>	
4	1971	1972	1973
Developed countries ·	<u> 51.5</u>	59.0	63.9
Petroleum Manufacturing Other	59.4 55.7 29.2	80.7 63.6 42.5	78.5 65.7 51.1
Less-Developed countries	21.4	25.3	30.9
Petroleum Manufacturing Other	12.1 54.1 24.1	7.9 63.2 41.8	19.4 66.6 40.8

a Computed as the ratio of foreign withholding taxes plus reinvested earnings to total earnings.

Source: Adapted from Friedlin & Lupo, op. cit.

The larger the ratio, the more the host country retains within its private economy, either in the form of general tax revenue to the government, or in the form of increased plant capacity. Table 8 shows that DC hosts retain roughly twice as much of a multinational's income within their economy than do LDC's. The most noteworthy example is the petroleum industry in 1972. Developed nations retained some 81% of U.S. petroleum industry earnings as taxes and plow backs, whereas the LDC's kept less than 8%. The most equal case appears in manufacturing (1973), where both DC's and LDC's kept about 66% of the firm's return within the host economy.

The general picture forming around Table 8 is reflected in Table 9 where we look at the firm's informational income as a portion of all income. Column 1 shows the combined royalties and management fees broken down by type of U.S. exporting industry and by region. Column 2 shows the BEA concept of "return" as explicated in the Friedlin and Lupo paper. Re is defined as the sum of (i) branch earnings experienced in the U.S. affiliates or subsidiaries; (ii) plus dividends distributed by those affiliates; (iii) plus foreign withholding taxes; (iv) plus reinvested earnings. In 1973, branch earnings, dividends, and reinvested earnings accounted for /96% of "returns." Column 3 shows the ratio of royalties and management fees to total returns. This ratio expresses the relative importance of royaltytype income (from the sale of knowledge or information) relative to profit-type income collected by the U.S. multinational. larger the ratio, the greater is the importance of direct sales of information; the smaller the ratio, the greater the U.S. firm's interest in branch earnings and reinvested earnings. Column 4 shows the industry's rate of return on investment, as computed by BEA.

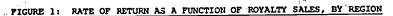
When we reduce these numbers onto a chart, an interesting picture emerges. Figure 1 shows the result of a scatter with a straight line fitted through the observations. On the Y axis (dependent variable) is shown the industry rate of return on direct investment. On the X axis (independent variable) is shown the royalty and management fee income as a percent of total returns. The DC's and LDC's are superimposed in the same figure.

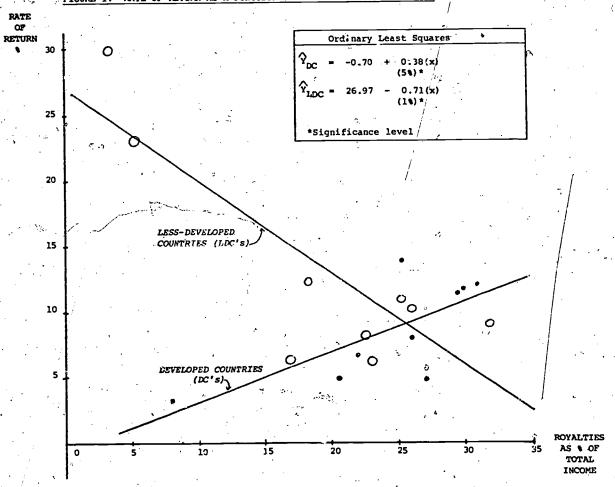
The ordinary least squares (OLS) regression on the DC's showed a significant direct relationship between the percentage of the return earned as royalty payments.

TABLE 9: PATES OF RETURN ON/INVESTMENT AND ROYALTIES

/ _ <u> </u>	(\$ Million	s, Current)		<u> </u>	<
AREA OF OPERATION INDUSTRY MEMBERSHIP OF U.S. MULTINATIONAL RECEIVING PAYMENTS	(1) ROYALTIES • FEES	(2) RETURN (INCOME)	ROYALTIES & FEES AS % OF TOTAL INCOME	RETURN ON DIRECT INVESTMENT	
1971				6,	•
Developed Countries All industries / Petroleum Manufacturing Other	1,594 127 950 517	5,414 465 3,206 1,743	29.4 27.3 29.6 29.7	10.0 4.7 11.3 11.7	
/ Less-Developed Countries All industries Petroleum Manufacturing Other	566 131 158° 277	3,976 2,481 628 867	14.2 5.3 25.2 32.0	15.1 23.2 10.8 9.1	
1972		,			
Developed Countries All industries Petroleum Manufacturing Other	1,815 1,15 1,102 598	6,880 559 4,363 1,958	26.4 20.6 25.3 30.5	11.5 5.0 13.9 12.2	
Less-Developed Countries All industries Petroleum Manufacturing Other	600 173 148 279	4,606 2,753 809 1,044	13.0 6.3 18.3 26.7	16.0 23.3 12.4 10.2	
1973		`	en n	er visit	, i
Developed Countries All industries Petroleum Manufacturing Other	2,182 128 1,379 675	10,330 1,542 6,181 2,607	21.1 8.3 22.3 25.9	6.2 3.5 6.6 7.8	
Less-Developed Countries All industries Petroleum Manufacturing Other	657 153 191 313	7,164 4,641 1,104 1,419	9.2 3.3 17.3 22.1	16.2 30.0 5.6 7.9	

Source: Adapted from J. N. Friedlin and L. A. Lupc, "U.S. Direct Investments Abroad in 1973", Survey of Current Business, Part II, August 1974. See Tables 11 and 12 for primary data.





Even though the explained variance is quite modest, the coefficient is significant. Generally, the greater the percentage of royalty income to total income, the larger will be the firm's rate of return. Firms operating in DC's have found it more profitable to extract their profits in the form of information sales rather than as operating profits on manufacturing. To make a profit, they have sold or shared knowledge.

The OLS for the LDC's tells a very different story. Here the rate of return is inversely proportional to the independent variable.

For sparse cross-sectional data, the amount of explained variance (73%) is a most intriguing result. Firms operating in LDC's apparently have found it much more profitable not to trade in information, but rather to set up their own facilities. The more information sold, the lower their rate of return.

Firms that operate in LDC's enjoy a higher rate of return when they concurrently draw less income on the sale of information, and they have a lower overall rate of return when they sell royalties and management fees rather than take their income in the form of branch earnings or dividends. But firms that operate in DC's seem to show the opposite relationship; the more information they sell as a proportion of total income, the higher their rate of return.

The data are too sparce to warrant a strong conclusion. In order to clearly establish a relationship, many more observations should be made, preferably controlling for the size of firm and industry. However, the fact that these simple estimates show opposite significant signs indicates that further research might be fruitful.





APPENDIX NINE

Table 10 shows the detail of three value-added components. Only employee compensation, proprietors' income and capital consumption allowance are included in the secondary information accounts. By assumption, all profits and taxes are allocated to the noninformation side of the firm.

Table 11 shows the detail of three final demand components.

"Net Exports" includes only royalties and management fees sold
by the secondary quasi-firms. "Federal Purchases" includes only
procurement of Research & Development plus the wages of government
information workers employed in "secondary" industries. State
and local government purchase no R&D. Their entire final demand
is secondary information labor services. These three final demand
components are used in the secondary I-O matrix, shown in
Appendix 10 (Vols. 4, 5).

Table 12 contains some additional data on the secondary national income time series. Column 1 is a ratio of secondary income to Gross National Product. Column 2 shows the unadjusted ratio of GNP to secondary income. It is unadjusted because the numerator contains information expenses of the primary sector, whereas the measure of productivity discussed in Chapter 9 does not. Column 3 shows an adjusted concept of secondary income, including an estimate of the bureaucracies inside primary information industries. Finally, Column 4 shows the ratio of modified secondary income to total national income. These statistics are presented for use by other researchers, and were not central to the tables shown in Chapter 9.

TABLE 10: DETAIL OF VALUE ADDED COMPONENTS OF THE SECONDARY SECTOR

	r c	(\$	Millions, 1967)	
INDUSTRY	EMPLOYEE COMPENSATION (INFO WORKERS)	PROP. INCOME & UNPAID FAMILY	CAPITAL CONSUMPTION ALLOWANCES	TOTAL SECONDARY VALUE ADDED
Total	139,405.0	22,848.0	5,820.3	168,073.3
Total Private Sector	120,670.0	22,848.0	5,820.3	149,338.3
Total Public Sector	18,735.0	. 70	. 0	18,735.0
	20,10010		·	
l. Livestock & livestock products	24.0	14.6	4.4	42.4
Other agriculture products	43.0	24.0	4.1	71.1
3. Forestry and fishery products	23.0	31.0	5.4	59.4
4. Argiculture, forestry, fishery svcs	166.0	120.0	8.4	294.4
5. Iron and feroalloy ores mining	69.0	2.0	F:5	72.5
6. Nonferrous metal ores mining	// 116.0	3.0	1.4	120.4
7. Coal mining	// 179.0	10.0	3.1	192.1
8. Crude petroleum & natural gas	√/ 481.0	100.0	227.9	808.9
9. Stone & clay mining & quarrying	217.0	16.0	22.4	255.4
O. Chemical & fertilizer mineral mining	55.0	5.0	2.6	62.6
1. New construction, net	7,084.0	1,328.0	1,298,7	9,710.7
2. Maintenance & repair construction, net	2,618.0	491.0	422.84	3,531.8
3. Ordnance and accessories	2,651.0	3.0	16.0	2,670.0
4. Food and kindred products	4,569.0	116.0	563.7	5,248.7
5. Tobacco manufacturers	247.0	1.0	5.7	253.7
6. Broad & narrow fabrics, yarn & thread mi		18.0	17.3	1,051.3
7. Misc textile goods & floor coverings	312.0	5.0	4.6	321.6
18. Apparel	2,182.0	77.0	33.6	2,292.6
9. Misc fabricated textile products	345.0	28.0	4.4	377.4
O. Lumber & wood products, exc containers,	*	172.0	15.3	1,013.3
21. Wooden containers	50.0	5.0	.8	55.8
22. Household furniture	538.0	38.0	5.5	581.5
23. Other furniture & fixtures, net	180.0	13.0	2.5	195.5
4. Paper & allied products exc containers	1,145.0	7.0	184.4	1,336.4
5. Paperboard containers and boxes	726.0	7,0	39.7	772.7
26. Printing and publishing	514.0	29.0	21.8	564.8
77. Chemicals & selected chemical prod, net	2,213.0	12.0		2,342.0
28. Plastics & synthetic materials	855.0	4.0	40.6	899.6
29. Drugs, cleanings to ilet preparations	1,579.0	17.0	33.7	1,629.7
30. Paints & allied products	380.0	6.0	8.8	394.8
3). Petroleum refining & related industries	1,274.0		√ 58.5	1,337.5
32. Rubber and miscellaneous plastics prods	•	24.0	26.9	1,701.9
33. Leather tanning & ind leather products	60.0	,	1.3	63.3

	The Mark Strategy		(\$ Millions	s, (1967)	
	INDUSTRY	EMPLOYEE/ COMPENSATION (INFO WORKERS)	PROP. INCOME & UNPAID	CAPITAL CONSUMPTION ALLOWANCES	TOTAL SECONDARY VALUE ADDED
34	Footwear & other leather products	436 0	16.0	4.5	456.5
35	Glass & glass products	554.0	11.0	12.6	577.6
36.	Stone & clay products	1,345.0	66.0	46.6	1,457.6
37.	Primary iron & steel manufacturing	2,842.0	ر 15.0 ·	123.0	2,980.0
18:	Primary nonferrous metal mig.	1,312.0	°: 13.0	44.7	1,369.7
39.	Metal containers	315.0	6.0 .	5.5	326.5
40.	Heating, plumbing structural metal prods	1,475.0	54.0	26.3	1,555.3
41.	Stampings, screw machine prods & bolts	1,183.0	14.0	18:4	1,215.4
42.	Other fabricated metal products	1,535.0	30.0	18.7	1,583.7
43.	Engines & turbines	467.0	1.7	11.0	479.0
44.	Farm machinery & equipment	550.0	7.0 .		570.9
45.	Construction, mining & oil field equip	823.0	7.0	· 38.1 /	858.1
46.	Materials handling mach & equipment	376.0	3.0	6.8	385.8
47.	Metalworking mach & equipment	1,436.0	46.0	46.9	1,528.9
48.	Special ind mach & equipment, net	733.0	22.0	. 15.2 .,	770.2
	General ind mach & equipment	1,203.0	37.0	42.7	1,282.7
;50.	Machine shop products	766.0	24.0	6.1	796.1
້52.	Service industry machines	-539.0 •	17.0	21.5	577.5
5,3.	Elec ind equip & apparatus, net	1,497.0		41.3	1,551.3
	Household appliances	540.0	8.0		571.4 652.7
55.	Elec lighting & wiring equip	635.0	5.0	12.7	498.2
58.	Misc electrical mach, net	478.0	. 4.0	16.2	The state of the s
59.	Motor vehicles & equipment	2,969.0	20.0	127.0	3,116.0
	Aircraft and parts	5,077.0	12.0	74.6	5,163.6 937.2
- 61.	Other transportation equipment	: 887.0	28.0	22.2	288.9
62.	Scientific & controlling instruments	267.0	9.0	12.9	75.8
63.	Optical, ophthalmic & photo equip, net	70.0	3.0	2.8	1,140.5
64.	Misc manufacturing, net	1,035.0	91.0	14.5 321.4	8,115.4
65.	Transportating & warehousing	7,272,0	, 522.0 34.0	110.8	2,611.8
68.	Elec, gas, water & sanitary svcs	27467.0		582.7	42,446.7
	Wholesale & retail trade, net	32,279.0	9,585.0 73.0	34.6	576.6
	Finance & insurance, net	469.0 1,474.0	1,011.0		2,764.3
71.	Real estate and rental, net		1,882.0		3,740.4
	Hotels; personal & rep svcs exc auto, net	2,837.0	3,536.0	161.9	6,534.9
	Business services, net	1,072.0	288.0	16.0	1,376.0
	Automobile repair & services	504.0	220.0	55.9	779.9
/6.	Amusements, net	4,331.0	2,318.0	124.1	6,773.1
	Medical, educ'l svcs &nonprofit orgns.	32.0	0	0	32.0
	Rest of the world	421.0	64.0	Ò	485.0
. 06	Household industry	76014			
	Federal General Government	6,357.0	0.	0	6,357.0
	State & Local Government	9,601.0	õ	0	9,601.0
	Federal Government Enterprises	1,336:0	Ŏ	Ò	1,336.0
	State & Local Government Enterprises	1,441.0	Ô	0	1,441.0
	APRICA E MARKET AAARTIMPIIA MIIAAS Loopaa	-,			ı

TABLE 11: DETAIL OF FINAL DEMAND COMPONENTS OF THE SECONDARY SECTOR.

(\$ Millions, 1967) TOTAL STATE SECONDARY NET FEDERAL -AND LOCAL PURCHASES FINAL DEMAND **EXPORTS PURCHASES** 27,440.0 Total 1,586.3 14,812.0 11,042.0 8,705.0 7,118.7 1,586.3 Total Private Sector 11,042.0 18,735.0 Total Public Sector 7,693.0 1. Livestock & livestock products 2. Other agriculture products 3. Forestry and fishery products 4. Argiculture, forestry, fishery svcs 7.7 5. Iron and feroalloy ores mining 3.9 6. Nonferrous metal ores mining .7 7. Coal mining 8. Crude petroleum & natural gas 9. Stone & clay mining & quarrying 0 10. Chemical & fertilizer mineral mining 204.1 0 191.2 12.8 11. New construction, net 0 12. Maintenance & repair construction, net 3,328.7 3,328.7 13. Ordnance and accessories 95.6 11.2 84.4 14. Food and kindred products 2.9 ٠0 2.9 15. Tobacco manufacturers 3.2 1.5 16. Broad & narrow fabrics, yarn & thread mil 17. Misc textile goods & floor coverings 0 18. Apparel 19. Misc fabricated textile products 20. Lumber & wood products, exc containers, net 0 4.7 21. Wooden containers 22. Household furniture 0 23. Other furniture & fixtures, net 23.2 1.0 22.2 24. Paper & allied products exc containers 25. Paperboard containers and boxes .3 221.1 26. Printing and publishing 101.1 1.20.0 27. Chemicals & selected chemical prod, net 90.8 52.2 38.6 28. Plastics & synthetic materials 33.5 8.0 25.5 29. Drugs, cleaning toilet preparations 3.5 .5

3.0

153.0

13.5

9.6

3.9

163.4

17.4

30. Paints & allied products

31. Petroleum refining & related industries

32. Rubber and miscellaneous plastics prods 33. Leather tanning & ind leather products

		* •	(\$ Mi	llions, 1967			
		NET EXPORTS	FEDERAL PURCHASES	STAT AND LO	E, TOTAL	RY	:
34. Footwear & other le	eather products	.2	0	0	.2	j	•
35. Glass & glass prod	ncts	10.0	.2	Ŏ.	10.2		
36. Stone & clay produ	cts	12.9	6.6	0	19.5	• .	
37. Primary iron & ste	el manufacturing	9,3	1.0	O	10.3		
3/, Pitmary Iton a sec-	motal mfd	10.9	16.8	0	27.2		
38. Primary nonferrous	metar mry.	; 10.5 .5	3.2	0	3.7		
39. Metal containers	Augustural motal prode	9.2	24.5	Ŏ.	33.7		
40. Heating, plumbing&s	cructural metal proce	8.6	18.4	Ô	27.0	٠,	
41. Stampings, screw m	McUlus bronz a norre		9.9	n	24.7		
42. Other fabricated m	etal products	14.8		. 0	16.6		·
43. Engines & turbines		9.8	6.8	0	15.3		
44. Farm machinery & e	quipment	11.2	4.1	٠ ٧	38.8		
45. Construction, min1	ng & oil field equip	34.0	. 4.8	. 0	17.0		
46. Materials handling	mach's ednibment	3.3	13.7	0	34.3	ړ	
47. Metalworking mach	& equipment	12.2	22.1	•	22.6		ż
48. Special ind mach &	equipment, net	16.9	5.7	0	31.7		
49. General ind mach &	equipment	16.5	15.2	0			
50, Machine shop produ	acts	1.6	5.0	0	6.6		
52. Service industry m	nachines	9.2	1.1	0	10.3		
53. Elec ind equip & a	apparatus, net	₅ 13.2	179.1	0	192.3		
54. Household appliance	nes ·	5.3	2.9	0	8.2	·	
55. Elec lighting & wi	iring equip	5.9	.8	. 0	6.7		
58. Misc electrical ma	ach, net	4.7	8.1	1 0	12.8	1	
59. Motor vehicles & 6	ogninment	54.9	33.3	0	88.2		
59, MOLOI VEHILLES & C	e day hueu e	44.4	2,653.2	- 0	2,697.6	•	
60. Aircraft and parts	ion oquinment	5.3	4.3	0	9.6		•
61. Other transportation	ton edathment	4.9	10.4	. 0	15.3		
62. Scientific & conti	TOTTING INSCRUMENTS	.4	2.4	0	2.8		
63. Optical, ophthalm	IC a biloto edathi wer	11.8	3.2	0	15.0	•	
64. Misc manufacturing	g, net	7.5	2.1	. 0	9.6		
65. Transportating & 1	warenousing	30.2	1.4	0	31.6		
68. Elec, gas, water	sanitary svcs	92.3	Ò	·Ó	92.3		
69. Wholesale & retail	1 trade, net	0	. 0	0	0		
70. Finance & insuran	ce, net	348.4	. 0	0	346.4		
71. Real estate and r	ental, net	2.6	7.0	. 0	9.6		
72. Hotels; personal	& rep svcs exc auto, net	278.2	172.1	. 0	450.3	• •	
73. Business services	, net	0		. 0	0, -		
75. Automobile repair	£ services	9.4	Ô	Ŏ	9,4		
76. Amuséments, net		P. C	110.2	Ō	110.2		
77. Medical, educ'l sv	cs Enonprofit orgas.	V 0	.0.	ā	0		
78. Federal govt ente	rprises, net	. n	.1	Ò	.1		
79. State & local gov	t enterprises	. 0	34.0	. 0	34.0		
80. Imports		. ,	21.0	٥	. 0		
81. Business travel,	entertain & gifts		υ 1	Ď	Ō		
82. Office supplies		Ų	. •	. •	-		
,		-		15 040 0	18,735.0		
General Governmen		0	7,693.0	11,042.0	10,/33.0		

Employee compensation of secondary information workers.

TABLE 12:

ADDITIONAL TIME SERIES DATA ON THE SECONDARY INFORMATION SECTOR, 1929-1974

(\$ Millions, Current)

NS GNP NS NS	d 15.6 16.2 14.1 11.0 10.9 13.4 14.6
1929 11.0 9.1 13,505.5 1930 11.3 8.2 12,212.5 1931 9.2 10.9 8,412.4 1932 6.6 15.2 4,710.0 1933 6.4 15.6 4,412.3 1934 8.4 11.9 6,617.1 1935 9.6 10.4 8,330.8 1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	d 15.6 16.2 14.1 11.0 10.9 13.4 14.6
1929 11.0 9.1 13,505.5 1930 11.3 8.2 12,212.5 1931 9.2 10.9 8,412.4 1932 6.6 15.2 4,710.0 1933 6.4 15.6 4,412.3 1934 8.4 11.9 6,617.1 1935 9.6 10.4 8,330.8 1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	15.6 16.2 14.1 11.0 10.9 13.4 14.6
1930 11.3 8.2 12,212.5 1931 9.2 10.9 8,412.4 1932 6.6 15.2 4,710.0 1933 6.4 15.6 4,412.3 1934 8.4 11.9 6,617.1 1935 9.6 10.4 8,330.8 1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	16.2 14.1 11.0 10.9 13.4 14.6
1931 9.2 10.9 8,412.4 1932 6.6 15.2 4,710.0 1933 6.4 15.6 4,412.3 1934 8.4 11.9 6,617.1 1935 9.6 10.4 8,330.8 1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	14.1 11.0 10.9 13.4 14.6
1932 6.6 15.2 4,710.0 1933 6.4 15.6 4,412.3 1934 8.4 11.9 6,617.1 1935 9.6 10.4 8,330.8 1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	11.0 10.9 13.4 14.6
1933 6.4 15.6 4,412.3 1934 8.4 11.9 6,617.1 1935 9.6 10.4 8,330.8 1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	10.9 13.4 14.6
1933 6.4 15.6 4,412.3 1934 8.4 11.9 6,617.1 1935 9.6 10.4 8,330.8 1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	13.4 14.6
1934 8.4 11.9 6,617.1 1935 9.6 10.4 8,330.8 1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	14.6
1935 9.6 10.4 8,330.8 1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	
1936 9.4 10.6 9,357.9 1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	14.4
1937 10.9 9.2 11,737.4 1938 9.3 10.8 9,492.8	
1938 9.3 10.8 9,492.8	15.9
	14.1
	14.8
1939 9.9 10.1 10,743.4 1940 10.8 9.3 12,809.5	15.8
	18.7
	20.9
	22.1
	22.3
	21.4
1945 15.5 6.4 38,768.2	21.9
1946 16.1 6.2 39,878.0	
1947 17.2 5.8 46,982.2	23.6
1948 18.4 5.4 55,748.4	24.7
1949 17.1 5.9 52,172.0	23.8
1950 17.9 5.6 60,445.3	24.9
1952 17.2 5.8 71,123.4	24.2
1954 18.4 5.4 81,088.3	26.6
1956 19.6 5.1 99,762.0	28.3
1958 19.1 5.2 105,144.1	28.4
1959 19.5 5.1 117,540.4	29.1
1960 19.6 5.1 122,822.0	29.4
1961 19.5 5.1 126,778.3	29.5
1963 20.1 5.0 148,711.4	0 30.7
	31.4
	31.3
	31.6
2505	31.4
	31.6
1971 20.1 5.0 273,723.5	31.9
1972 20.4 4.9 305,593.7	
1973 21.1 4.7 351,602.0	32.7
1974 20.6 4.9 372,279.9	31.4

a Secondary information national income as percent of gross national product.

bunits of GNP produced per unit of secondary national income,

^CModified version of secondary national income, including the bureaucracies inside primary information firms.

d_{Modified} secondary income as percent of total income.

APPENDICES FIVE AND SEVEN

These appendices contain the following backup material to Chapters 5 and 7 of Volume I:

- (i) A discussion of the sources and methods used in the compilation of the 1929-1974 time series of national income accounts.
- (ii) A discussion of the sources and methods used in the compilation of the two and four sector 1860-1980 time series of the national labor force.
- (iii) The detailed time series of national accounts, including the primary information sector (Table 13).
- (iv) The detailed time series, at the two and four sector level, of the national work force, including information workers (Tables 14 and 15).

Sources and Methods

This time series is an extension of Table 5.2 of Chapter 5. The following section summarizes how the data were developed, and serves as a guide to the reliability of the data.

National income data were not readily available for many industries at the 7-digit SIC level; and in some cases, they were only available at the 2- or 3-digit SIC level. Hence, we adopted a procedure for estimating national income that we feel is accurate to ± 5% in most cases.

The starting data base is the national income time series produced by the Bureau of Economic Analysis (BEA). In some cases, the entire industry at the 2-digit level was allocated to information (e.g., "Communications"), and the national income estimate is as good as BEA's. In other cases, fairly extensive prorations were done at the 4-digit SIC level. The economic censuses usually report "value added" for the manufacturing industries at the 4-digit SIC level. However, the census definition and the BEA definition vary considerably. Value added as reported in the Census of Manufacturers is defined as the difference between total revenues and the cost of goods The BEA procedure for estimating value added is to aggregate upwards by adding the individual components (e.g., employee compensation, profits, depreciation). Since definitions of cost of goods sold, revenues realized, profits and depreciation vary between accounting schema, and since both sets of data are subject to sampling error, differences of up to 15% can be found between the two value-added estimates. However, we have used the BEA's national income estimates wherever possible, and prorated BEA's estimates wherever a finer allocation was necessary.



the manufacturing industries, the value added of the relevant industries -- computed at a 4-digit level or deeper -- was measured as a percent of total value added at the 2-digit level. This proration was then applied against BEA's national income estimate at the 2-digit level.

The service industries were treated somewhat differently. In many cases, the entire industry was "lifted" (e.g., legal services) and no proration was necessary. Where, a proration was necessary (e.g., "miscellaneous repair services"), we had a choice to prorate on either employee compensation or total receipts. A brief (unreported) study showed that the total-receipts method of proration more accurately reflects national income than by prorating on employee compensation. The reason is that in the service industries, a considerable amount of national income originates with proprietors' retained earnings. These are omitted from "employee compensation," hence the proration is biased downwards. The service industries, then, were prorated on the ratio of receipts at the 4-digit level as a fraction of total receipts at the 2-digit level. The proration was then used to divide the industry's share of national income into information vs. nominformation.

Quality of the Estimates

Certain industries could not be prorated without resorting to dubious techniques; others are solid estimates. In all fairness to the reader, we felt that the areas of weakness should be spotlighted. This section briefly explains how each industry's estimate was derived.

CONSTRUCTION

This sector includes office buildings, school facilities, and telephone and telegraph buildings. The 1963 and 1967 estimates were drawn directly from BEA estimates. For other years (1930-1974), we used industry statistics showing total revenues of the office and bank building construction activities. These data understate the total revenue accruing from information structure construction, since they do not report all government construction activities. The Dodge summary was also used for education buildings. Here, too, the estimates understate the activity since Dodge uses a narrow definition of what constitutes an "education building."

TELEPHONE AND TELEGRAPH BUILDINGS

The Federal Communications Commission provides estimates of construction activities. These were adapted to conform to BEA's definition, which includes some equipment and facilities as part of the construction budget. Repair and maintenance construction were estimated using the 1967 ratios between new construction and repairs, since no other data were available. This number is subject to error.



PAPER AND ALLIED PRODUCTS.
PRINTING AND PUBLISHING
OFFICE FURNITURE
MACHINERY, EXCEPT ELECTRICAL
ELECTRICAL MACHINERY
MISCELLANEOUS MANUFACTURING

These industries were computed using value-added data as reported in the Census of Manufacturers. Value-added at the 4-digit level was summed for all information industries (with prorations down to the 7-digit level for PAPER and OFFICE FURNITURE), and that ratio was applied against BEA's national income estimates. The relevant census years are 1929, 1933, 1939, 1948, 1952, and 1958 through 1972. All other years were interpolated using a straight-line method.

SCIENTIFIC INSTRUMENTS

Same as above, except that before 1948 the industry's national income is primarily included in "miscellaneous manufacturing." Definitional vagaries cause discontinuous jumps in the time series which should not be confused with real changes in industry activity.

BANKING
COMMUNICATION
CREDIT AGENCIES
INSURANCE AGENTS
INSURANCE CARRIERS
HOLDING COMPANIES

These industries were entirely allocated to information services, as explained in detail in Appendix 3 (Vol. 2). Hence, the estimates of national income are reliable.

SECURITY AND COMMODITY BROKERS

The 1967 proration of security and commedity brokers' income allocated to information was 76%. This static proration was used through the entire time series, as no further data were available.

REAL ESTATE

Commissions of real estate brokers and agents were taken from the Census of Business. Estimates for royalty-type income were not included. Estimates of office rentals were computed using an index of "information workers" developed from Chapter 7, and adapted from the known 1967 office and bank building rentals per information worker.



PERSONAL SERVICES
MISCELLANEOUS REPAIR SERVICES
MISCELLANEOUS BUSINESS SERVICES
AMUSEMENTS

Prorations were derived from the Census of Business at the 4-digit SIC level for the years 1933, 1939, 1948, 1954, 1958, 1963, and 1972. Straight-line prorations were used for the other years.

MEDICAL AND HEALTH SERVICES

The only relevant proration following the discussion in Appendix 3 (Vol. 2) is physician's office income. The allocation to information services was based on personal consumption expenditures on physicians' offices, taken from the benchmark BEA national accounts. Fifty percent of personal consumption was allocated to information; all other expenditures were omitted.

LEGAL SERVICES EDUCATION (PRIVATE) MOTION PICTURES

The entire industry was allocated to information services, hence all of national income at the 2-digit level was transferred.

NONPROFIT ORGANIZATIONS

No detailed data were available for nonprofits, hence we used the 1967 prorations (80%) for the entire period.

FEDERAL GOVERNMENT -- GENERAL

The employee compensation to Federal government workers was divided into three parts: (i) compensation paid to workers in "primary" information industries or their equivalents; (ii) to "secondary" industries or their equivalents; and (iii) to "special government functions." See Chapter 8 for detailed description. Only the first type is included here -- the wages of government workers in "primary" type Federal industries.

FEDERAL GOVERNMENT ENTERPRISES

Only the employee compensation of Postal Service workers (prorated to exclude noninformation workers) is included here.



STATE AND LOCAL GOVERNMENTS -- GENERAL

Only education is counted as a state and local primary information industry, hence only the employee compensation of education workers is included here. Sources of data are U.S. Department of Commerce for 1948-1974, with additional estimates to 1935.7 Prorations for 1929-1935 assume constant expenditures for education during those six years.

Redefinitions

Between 1929 and 1974, the Standard Industrial Classification system was changed numerous times. Before 1958 there was no established classification scheme; it was retroactively adapted by the Bureau of the Census in an attempt to make the data consistent. The SIC scheme was subsequently changed in 1963, 1967, and 1972. No attempt to report the impact of the redefinitions is made, since there are too many. However, minor anomalies in the time series are partially explained by such definitional changes.

Labor Force

Two studies of the work force are included in this appendix. A simple two-sector aggregation of information and noninformation; and a more complex four-sector aggregation of information, agriculture, industry and services are developed from 1860 through 1980.

The tables were developed from decennial census surveys of population. Table 14 utilizes both inclusive and restrictive definitions of inform tion workers. Table 15 uses a media definition bounded by Table 14.



TABLE 13:
WATIONAL INCOME OF THE PRIMARY INFORMATION SECTOR BY INDUSTRY, 1929-1974 (\$ Millions Current)

•		1929	•	.]	1930	<u></u>		931	
	NAT.	INFOR-		NAT.	INFOR-		NAT.	INFOR-	
	INCOME	MATION	%INFO	INCOME	MATION	%INFO	INCOME	MATION	#INF
INDUSTRY	TIVCUME	PALION	41/110	Income			-		
•		۸	0.0	6400.	0.	0.0	5165.	0.	0.0
Agriculture	6473.	0. 0.	0.0	1660.	0.	0.0		. O.	0.0
Mining	2101.	568.	14.800	3159.	478.	14.933	· 2220.	334.	15.067
Construction	3835 . 21945.	2199.	9.980	18296.	1978.	10.811	12462.	1511.	12.104
Manufacturing			14.340	9761.	1446.	14.810	75252	1176.	15.652
Nondurable goods	100741	113.	20.200	502.	105.	20.850	307.	83.	21.500
Paper & allied products	558.	1413.	39.000	1503.	1341.	89.214	1224.	1095.	89.429
Printing, publish fallied inds	1588. 8496.	بر .0		7756.	0.	0.0	5914.	,).	0.0
Nondurable manufacturing, nec	11303.	664.	5.874	8535.	532.	6.239	4957.	333.	6.718
Durable goods	075.	71.	10.500	506.	54.	10.688	372.	40.	10.875
Purniture		166.	8.800	1483.	- 131.	8.825	757.	67.	8.850
Machinery, exc electrical	1891.	293.	28.000	826.	234.	20.312	508.	145.	28.625
Electrical machinery	1047.	293.	100.000	0.	0.	100.000	0.	0.	100.000
Instruments	0.		22.000	504	114.	22.550	347.	80.	23.100
Misc manufacturing	607.	134.	0.0	5216.	.0.	0.0.	2973.	0.	0.0
Durable manufacturing, nec	7,83.	0.	0.0	5594.	0.	0.0	4363.	0.	0.0
Transportation	0605.	0.		1092.	1092.	100.000	1000.	1000.	100.000
Communication	1128.	1128.	100.000	1644.	0.	0.0	1598.	0.	0.0
Electric, gas & sanitary services	1638.	0.	0.0		1657.	13.409	9911.	1405.	14.171
Wholesale & retail trade	13511.	1754.	12.983	12357.	3686.	34.425	B761.	2867.	32.720
Finance, insurance freal estate	12813.	4918.	38,382	10707.		00.000	1206	1206.	100.000
Banking	2010.	2018.	100.000	1641.	1641. O.	100.000	0.	0.	100.000
Credit agencies	0.	0.,	100.000	٠.	75.	77.600	-45.	-35.	77.600
Security & commodity brokers	720.	563.	77.600	97.		100.000	696.	696.	100.000
Insurance carriers	844.	849.	100.000	775.	775.	100.000	366.	366.	100.000
Insurance agents	421.	421.	100.000	402.	402.		6580.	676.	10.267
Real estate	8030.	898.	10.400	7806.		10.333	-42.	-42.	100.000
Holding companies	109.	169.	100.000	-14.	-14.	100.000	7236.	2799.	38.68
Services	8843.	3066.	34.667	8371.	3026.	36.150	1040.	41.	3.90
Personal services	1207.	50.	3.900	1218.	70,0	3.900	481.	182.	37.93
Miscellaneous business services	όθυ.	231.	38.000	³606 .	230.	37.967	276.	13.	4.60
Miscellaneous repair services	115.	14.	4.600	306.	14.	4.600	361.	361.	100.00
Motion pictures	440.	440.	100.000	438.	¥18.	100.000	268.	27.	10.00
Amusements & recreation	379.	42.	11.000	336.	35.	10.500		`410.	31.400
Medical & health services	1536.	479.	11.200	1476.	462.	31.300	1306. 701.	701.	100.00
Legal services	689.	689.	100.000	683.	683.	100.000		¥12.	100.000
Education services	402.	402.	100.000	413.	413.	100.000	412.		80.00
Nonprofit membership organizations	040.	514.	80.000	649.	519.	80.000	626.	501. 152.	100.00
Miscellaneous professional services	406.	206.	100.000	184.	184.	100.000	152.	0.	0.0
Services, nec	2341.	0.	0.0	2062.	0,	0.0	1613.		43.69
Government and government enterprises	5093.	2218.	43.549	5316.	2315.	43.549	5426.	2371. 716.	47.61
Federal	1460.	697.	47.762	1499.	713.	47.545	1503.	270.	29.30
General government	879.	252.	28.700	915. <i>(</i>	265.	29.000	921. 502	446.	76.60
Government enterprises	581.	, 445.	76.600	584.	447.	76.600	582.	1655.	42.18
State and local	3533.	1521.	41.856	38 17.	1602.	41.980	3923.	1655.	44.28
General government	3456.	1521.	44.000	3630.	1602.	44.143	3737.	1022.	0.0
Government enterprises	177.	0.	0.0	187.	0.	0.0	186. 547.	0.	0.0
Rest of the world	810.	0.	0.0	746.	0.	0.0	341.	٠.	
Private Sector	81702.	13623.	16.674	70066.	11917.	17.008	54243.	9916.	18.28
All industries, TOTAL	· 86795. `	15841.	:8.251	75382.	14232.	18.879 ·	59669.	12286.	20.59

	.	1932	4		1933			934	١
	NAT.	INFOR-		NAT.	INFOR-		NAT.	INFOR-	
INDUSTRY	INCOME	MATION	%INFO	INCOME	MATION	%INFO	INCOME	MATION	\$INF
INDUSTRI									
· · · · · · · · · · · · · · · · · · ·	350a.	0.	0.0	3872.	. 0.	0.0	4136.	0.	0.0
Agriculture	681.	0.	0.0	628.	· 0,	0.0	1145.	0.	V.V
Mining	1001.	164.	15.200	78à.	120.	15.200	1118.	172.	15.375
Construction	7334.	1021.	13.918	7705.	982.	12.744	11100.	1243.	11.201
tanufacturing to	5248.	857.	16.338	4944.	,7\$J .	16.041	6488.	953.	14.686
Nondurable goods	269.	60.	22.150	290.	66. 1	22.800 '	418. "	98.	23.450
Paper & allied products	0k8	798.	83.643	B09.	727.	89.857	949.	855.	90.071
Printing, publish sallied inds	4604	Ų.	0.0	3845.	0. ,	0.0	5121.	٠0.	0.0
Nondurable manufacturing nec	2066.	163.75		2761	189.	∞6.841	4612.	291.	6.299
Durable goods	_	23.	11.062	182.	20.	"11.250	283.	32.	11.437
Furniture	∡11. 20.	27.	8.875	426.	38.	8.900	739.	66.	8.925
Machinery, exc electrical	304.		28.917	279.	82.	29.250	363.	113.	29.562
Electrical machinery	250.	72-	100.000	0.		100.000	0.	'O.	100.000
Instruments	0.	· 0.		202.	49.	24.200	319.	79.	24.750
Misc manufacturing	172,	41.	23.650		0.	0.0	2888.	Ů.	0.0
Durable manufacturing, nec	1149.	0.	0.0	1672.	1		3419.	0.	0.0
Transportation	3216.	. 0.	0.0	3018.	0.	2.0	771.	771,	100,000
Communication	812.	812.	100.000	702.		100.000		· 0.	0.0
Electric, gas samitary services	1461.	0.	0.0	1287.	` O '	0.0	1419.		13, 296
Wholesale & retail trade	6532.	. 966.	14.792	5625.	817.	14.524	8310, 1		
Pinance, insurance Freal estate	6950.	2336.	33.580	5877.	2095.	35.646	5641.	2059.	36.496
	915.	915.	100.500	692.	ი 692.	100.000	539.	539.	100.00
Banking: Credit agencies	ı 0 .	0.	130.000	0.	0.	100.000	٥.	0.	100.00
Security & commodity brokers	100.	176.	77.600	191.	148.	77.600	214.	166.	77.60
Insurance carriers	564.	564.	100.000	552.	552.	100.000	636.	636.	10.000
- and	328.	328.	100.000	289.	289.	100.000	315.	315.	100.00
Insurance agents	5120.	522.	10.200	4164.	425.	10.200	3927.	393.	10.000
Real estate	-71.	-71.	100.000	-11.	-11,	100.000	10.	10.	100.00
Holding companies		2271.	40.116	5141.	2180.	42.397	5782.	2346.	40.57
Services	5661.		3.900	707.	28.	3.900	790.	30.	3.82
Personal services	814.	32.		350	136.	37.500	455.	164.	35.98
Miscellaneous business services	385.	146.			9.	Air	203.	12.	5.82
Miscellaneous repair services	228.	10.	4.600	191.	210.	100 0	283.	283.	100.00
Motion pictures	194.	194.	100.000	210.		930	197.	18.	9.04
Amusements 5 recreation	177.	17.	9.500	154.	15.		1036.	340.	32.80
Medical & health services	1037.	331.	31.900 \	948.	339.	35.800		"	100.00
Legal services	591.	591.	100:000	561.	561.	100.000	600.	600 361.	100.00
Education services	393.	393.	100.000	363.	363.	100.000	361.		80.00
Nonprofit membership organizations	50).	455.	80.000	527.	422.	80.000	532.	426.	100.00
Miscellaneous professional services	102.	102.	100.000	98.	98.	100.000	113.	113.	
Services, nec	1171.	· 0.	0.0	1024.	0.	0.0	1212.	0.	0.0
Government and government enterprises	5150.	2261.	43.904	5326.	2293.	43.060	6271.	2662.	42.44
	1424.	677.	47.555	1649.	720.	43.635	2234.	925.	41.41
Federal General government	880.°	260.	29.600	1164.	348.	29,900	1694	512.	30.20
General dovernment	544.	417.	76.600	485.	372.	76.600	540,	414.	76.60
Government enterprises State and local	3720	1584		3677.	1574.	42.802	4037.	1737.	43.02
General government	3565.	1584.	44.429	3531.	1574.	44.571	3884.	1737.	44.71
PEUGLET GOARTIMENS		0.	0.0	146.	. 0.	0.0	153.	0.	0.0
Covernment enterprises	161.	1	0.0	323.	. 0.	0.0	303.	0.	0.0
Rest of the world	393.	0.	۷۰۷ ٪.	, 4641		•••			-
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			i.					٠.	
	•		00 444	20006	6895.	19.709	43144.	7696.	17.83
Private Sector	37635.	7570.	20.114	34986.	0.033	170147	731779		
•		.1			•		•		
		ا	•	,					
	1	12:11		#0.345	0400	22.794	49415.	10358.	20.96
All industries, TOTAL	42785.	9831.	22.978	40312.	9189.	441.33	777130	197741	
					•				

		935			1936	<u>, '</u>		137	
	NAT.	INFOR-		NAT.	INFOR-	• •	NAT.	Infor-	i
NDUSTRY	INCOME	MATION	%INFO	INCOME	MATIO	*INFO	INCOME	MATION	\$INF
			· ·		i la state	, ,			
riculture	6650.	0.	0.0	5749.	. , 0.	0.0	7597.	. 0.	0.0
ning	1217.	0.	0=0	1547.	0.	0.0	1990.	0.	0.0
nstruction	1342.	209.	15.550	2042.	321.	15.725	. 2104.	335.	15-900
hufacturing	13390.	1451.	10.834	16294.	1706.	10.472	19450.	1918.	9.863
Nondurable goods	7313.	1059.	14.479	8224.	1195.	14.532	9591.	1285.	13.402
	460.	111.	24.100	503.		24.750	564.	143.	25,400
Paper & allied products	1050.	949.	90.286	1183.	1071.	90.500	1259	1142.	90.714
Printing, publish fallied inds	5803.	. 0.	0.0	6538.	0.	0.0	7768.	0.	0.0
Nondurable manufacturing, nec			6.448						6.421
Durable goods	6077.	392.		8070.	· 511.	6.335	9859.	633.	
Furniture	391.	40.	11.625	441.	52.	11.812	507.	61.	12.000
Machinery, exc electrical	1016.	91.	8.950	1399.	126.	8.975	1761.	158.	9.000
Electrical machinery	529.	158.	29.875	712.	215.	30.187	914.	279.	30.500
Instruments	٥.	٥.	100.000	٠, ٥,	0.	100.000	0.	, O.	100.000
Misc manufacturing	408.	103.	25.300	459.	119.	25.850	511.	135.	26.400
Durable manufacturing, nec	3783.	0.	0.0	5059.	0.	0.0	6166.	C.	0.0
ansportation	369 J	0.	0.0	4266.	Ö.	0.0	4635.	Õ.	0.0
manufication	807.	807.	100.000	884.		100.000	984.	984.	100.000
ectric,gasisanitary services	1439.	0.	0.0 °	1556.	0.,	0.0	1716.	0.	0.0
olesale & retail trade	9408.	1233.	13.109	10768.	1417.	13.157	12354.	1499.	12.134
									40.467
namce,insurancefreal estate	5968.	2335.	38.987	6652.	2711.	40.752	7251.	2934.	
Banking	662.	662.	100.000	775.		100.000	893.	e93.	100.000
Credit agencies ,	٥.	. 0.	100.000	0.		100.000	\0.	0.	100.000
Security & commodity brokers	227.	176.	77.600	346.	268.	77.600	241.	·187 .	77.600
Insurance carties?	709.	. 709.	100.000	785.	785.	100.000	866.	886.	100.000
Insurance agents	330.	330.	100.000	347.	347.	100.000	386.	386.	100.000
Real estate	3994.	391. °	9.800	4274.	410.	9.600	4705.	442.	9.400
Holding companies	66.	66.	100.000	, 125.		100.000	140.	147.	100.000
rvices	6183.	2468.	39.923	6847.	2677.	39.091	7514.	2816.	37:477
Personal services	865.	32.	3.740	962.	35.	3.660	1113.	40.	3.580
Miscellaneous business services	\$12.	174.	34.060	610.	196.	32.140	649.	196.	30.220
Miscellaneous repair services	218.	15.	7.040	230.	19.	8.260	247.	23.	9.480
							437.	437.	100.000
Motion pictures	. 329.	. 329.	100.000	391.		100.000			
Amusements & recreation	211.	18.	8.580	253.	21.	8.120	305.	23.	7.660
Medical & health services	1115.	367.	32.900	1253.	411.	32.800	1323.	429.	32.400
Legal services	624.	624.	100.000	647.		100.000	680.	680.	100.000
Education services	365.	365.	100.000 .	376.		100.000	394.	394.	100.000
Nonprofit membership organizations	52b.	422.	80.000	546.	437.	80.000	547.	438.	80.000
Miscellaneous professional services	121.	121.	100.000	144.		100.000	·156.	156.	100.000
Services, nec	1295.	0.	0.0	1435.	Q.	0.0	1663.	0.	0.0
vernment and government enterprises	6724.	2884.	42.887	8108.	3270.	40.329	7772.	3201.	41.182
Pederal	2382.	1010.	42.383	4232.	1607.	37.964	3688.	1445.	39, 183
General government	1768.	5.39.	30.500	3570.	1100.	30.800	3013.	928.	30.800
Government enterprises	614.	470.	76.600	662.	507.	76.600	675.	517.	76.600
State and local	4342.	1874.	43.163	3876.	1663.	42.910	4084.	1756.	42.987
General government							3889.		45.143
Government enterprises	4178.	1874.	44.857	3696.	1663.	45.000		1756.	
est of the world	164.	0.	0.0	180.	0.	0.0	195.	0.	0.0
INC AT MIS MATTE	367.	ę.	0.0	300.	0.	.0,0	283.	0.	0.0
				•	•				
0	1		,						
-lucka Cashan	50484.	8503.	16.842	56905.	9716.	17.073	65878.	10486.	15.918
ITABLE SECTOR					J			•	
rivata Sector									,
ll industries, TOTAL				· ·		4			

ERIC Frontidation for ERIC

		1938			1939		1	940	
. 4	NAT.	INFOR-	·	NAT.	INFOR-	,	NAT	INFOR-	
	INCOME	MATION	%INFO	INCOME	MATION	*INFO	INCOMB	MATION	*INFC
Industry	THEORE		44,000	55			, ,		
	cous	δ.	0.0	6026.	Q.	0.0	6141.	0.	0.0
Agriculture	5945.	. 0.	0.0	1633.	Ö.	0.0	1932.	0.	0.0
Kining	1544. 2005.	319.	15.900	2342.	372.	15.900	2589.	412.	15.900
Construction		1670.	11.025	18094.	1854.	10.246	22481.	· 2116. \	9.413
Hanufacturing	15151.	1187.	14.123	9093.	1253.	13.778	10314.	1321.	12.808
Nondurable goods	8407.	145.	25.400	555.	140.	25.222	664.	166.	25.044
Paper & allied products	572.	1042.	90.929	1221.	1113.	91.143	1264.	1155.	S1.357
Printing, publish fallied inds	1146.	0.	U.O '	7317.	0.	0.0	8386.	0.	0.0
Nondurable manufacturing, nec	6689.		7.162	9001.	601.	6.677	12167.	· 795 .	6.535
Durable goods	6744.	483.	12.000	507.	60.	11.889	563.	66.	11.778
Furniture	422.	51.	9.000	1496.	135.	9.032	2180.	1987	9.06
Machinery, exc electrical	1251.	113.	30.500	858.	268.	31:247	1136.	363.	31.995
Electrical machinery	665.	203.		0.	0.	79.000	٥.	0.	79.000
Instruments	0.	0.	79.000	522.	138.	26,350	638.	168.	26.300
Misc manufacturing	443.	117.	26.400	5618.	0.	0.0	- 7650.	٠ 0.	0.0
Durable manufacturing, nec	, 3963.	0.	0.0	4643.	o.	0.0	5039.	0.	0.0
Transportation	4054.	0.	0.0		1075.	100.000	1111.	1111.	100.000
Communication	1907.	1007.	100.000	1075.	0.	. 0.0	1925.	0.	0.0
Electric, gas sanitary services	1691.	O.	0.0	1766.	1572.	12.475	14460.	1677.	11.59
Wholesale & retail trade	14096.	1547.	12.787	12604.		37.501	8301.	3133.	37.73
Finance, insurance Freal vascate	7744.	2975.	38.421	7991.	2997.	100.000	980.	980.	100.00
Banking	644.	844.	100.000	. 680.	880.	100.000	0.	0.	100.00
Credit agencies	٥.	Ç.	100.000	0.	0.	77.600	186.	144.	77.60
Security & commodity brokers .	190.	. 147.	77.600	204.	158.	100.000	872.	872.	100.00
Insurance carriers	908.	908,•	100.000	904.	904.		405.	405.	100.00
Insurance agents	3 8 3.	383.	100.000	390.	390.	100.000	5672.	545.	9,61
Real estate	5205.	479.	9.200	5450.	501.	9,200	186.	186.	100.000
Holding companies	214.	214.	100,000	163.	163.	100.000	8026	3051.	38.01
Services	7225.	2789.	38.606	7554.	2879.	38.107	1154.	42.	3.66
Personal services	1024.	36.	3.500	1053.	37.	3.500	702.	237	33.71
Miscellaneous business services	o35.	180.	28.300	676.	191.	29.300		28.	10.78
Miscellaneous repair services	259.	28.	10.700	261.	28.	10.700	261.	448.	100.00
Motion Fictures	426.	426.	100,030	434.	434.	100.000	448.		7.25
Amusements & recreation	256.	18.	7.200	288.	21.	7.200	310.	· 22. 458.	31.30
Medical & health services	1330.	418.	31.400	1381.	435.	31.500	1463.		100.00
Legal services	666.	666.	100.000	692.	692.	100.000	719.	719.	100.00
Education services	409.	409.	100.000	415.	415.	100.000	424.	424.	80.00
Homprofit membership organizations	556.	445.	80.000	556.	. 445.	80.000	599.	. 479.	100.00
Miscellaneous professional services	164.	164.	100.000	181.	181.	100.000	193.	193.	0.0
Comines 200	1456.	0.	0.0	1617.	. 0.	0.0	1753.	0. 2506	40.01
Services, nac Government and government enterprises	8524.	3225.	37.829	8523.	3336.	39.143	8762.	3506.	36.64
	4203.	1358.	32.318	4133.0	1435.	34.720	4235.	1552.	
Federal General government	3505.	824.	23.500	3414.	884.	25,900	3489.	. 980 .	28.10 76.60
Covernment enterprises	698.	535.		719.	551.	76.600	746.	571.	43.17
State and local	4321.	1866.	43.190	4390.	1901.	43.307	4527.	1955.	
General government	4121.	1866.	45.286	4 185.	1901.	45.429	4289.	1955.	45.5
Government enterprises	200.	. 0.	0.0	205.	· 0.	0.0	238.	Q.	0.0
Rest of the world	366.	. 0.	0.0	313.	0.	0.0	357.	·-·0.	۷.۷
WEST OF THE MAYOR	104.	•••	- • •						
	<u>.</u> 1.	,							
f(x) = f(x)	*		:					44.66	15.8
Private Sector	58848.	10307.	17.515	64041.	10749.	16.784	72362.	11499.	12.0
ETTIME ARREAS	200441	, , , , , ,		1		1.0			
•			٠.				,		
							7	15005.	18.45
All industries, TOTAL	67372.	13532.	20.085	72564.	14085.	19.411	81124.	, 13003.	10.44
UPP WIRMING ARAL SALINA	, ,,,,,,,,			1,					

Agriculture			1941		. 1	1942		19	43	
Agriculture		NAT			NAT.	INFOR-		NAT.	INFOR-	
Agriculture 2541, 0, 0.0 12165. 0, 0,0 14395. 0. Rining 2104. 0, 0.0 2588. 0, 0.0 2784. 0. Ronderwittion 4.1. 2671. 157-50 4691. 1012. 15,900 5477. 871. Ronderwittine goods 1254. 2612. 8.468 55427. 3344. 7.395 54273. 4129. Ronderwittine goods 1254. 5155. 11,750 1558. 620. 5.655 15847. 1916. Ronderwittine goods 1254. 1515. 11,750 1558. 620. 5.655 15847. 1916. Ronderwittine goods 1254. 1515. 11,750 1558. 620. 5.655 15847. 1916. Ronderwittine goods 1247. 1257. 1257. 1757. 1445. 1218. 9.1728 1786. 366. Ronderwittine goods 22411. 1257. 6.386 28253. 1740. 6.391 3666. 2211. Ronderwittine goods 22411. 1257. 6.386 28253. 1740. 6.391 38665. 2211. Ronderwittine goods 1497. 621. 32.712 2415. 893. 33,489 3357. 1415. Reductional machinery 1697. 621. 32.712 2415. 893. 33,489 3357. 1415. Reductional machinery 1697. 621. 32.712 2415. 893. 33,489 3357. 1415. Reductional machinery 1697. 621. 32.712 2415. 893. 33,489 3357. 1415. Reductional machinery 1697. 621. 32.712 2415. 893. 33,489 3357. 1415. Reductional machinery 1697. 621. 1209. 311. 26.200 1577. 412. Reductional machinery 1297. 621. 629. 629. 629. 629. 629. Returnments 1298. 629.	THRICTO			%INFO			%INFO	INCOME	MATION	%INFO
Agriculture \$401. 0. 0.0 1216. 0. 0.0 1788. 0. \$100 0. 0.0 1258. 0. 0.0 1788. 0. \$100 0. 0.0 1258. 0. 0.0 1788. 0. \$100 0. 0.0 1258. 0. 0.0 1788. 0. \$100 1.0 1.0 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 1.0 \$100 1.0 1.0 1.0 \$100 1.0 1.0 1.0 \$100 1.0 1.0 1.0 \$100 1.0 1.0 1.0 \$100 1.0 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 1.0 \$100 1.0 \$100 1.0 1.0 \$100 1.0									7	
Agriculture Raining 2100 0. 0. 0. 2538. 0. 0.0 2744 2744					11166		η Δ	14 398.	/ 0.	0.0
## Rining	Agriculture								- P	0.0
Chastruction ### 411. 201. 3.468 49.17. 3944 7.259 59252 4129. 1916.	Mining								1	15.900
Ranufacturing 1241 1515 11.759 15584 1604 5.659 19417 1915 1916 1926 1927 1926 1927 1926 1927 1926 1926 1927 1926	Construction									7.089
Some	Manufacturing -									9.752
Paper 4-allied products Printing, published linds Printing Purnting Printing Pri	Nondurable goods									24.511
Printing.publishellided indis	Paper & allied products									92.000
Somourable manufacturing,mcc 10-17	Printing, publish & allied inds									0.0
Durable goods	Nondurable manufacturing, nec									5.733
Puriture 164-1. 1.697 391. 1.697 392. 1.1697 392. 1.1697 394. 1.										11.444
Statistical machinery 1697, 621, 32,782 2475, 823, 31,489 3157; 1149, 1161, 1162, 1163, 621, 32,782 2475, 823, 31,489 3157; 1149, 1161, 116		764.0								9.158
Electrical machinery 1697, 621, 32.742 2475, 623, 31.748 33.747 170. Instruments 0 0 79,000 0 0, 0, 73,000 0 0 0, 0, 1 Misc assurfacturing 895, 235, 26.259 1/09, 317, 26.200 1577, 412, Durable manufacturing,acc 1/294, 0 0.0 8804, 0 0.0 10795, 0, Communication 1/237, 1237, 100,000 1474, 1478, 105,000 1681, 1883, Electric, gassar ary services 4/72, 0 0.0 2187, 0 0.0 2281, 0 0.2 234, 0 0. Electric, gassar ary services 4/72, 0 0.0 2187, 0 0.0 2284, 0 0. Electric, gassar ary services 4/72, 0 0.0 2187, 0 0.0 2284, 0 0. Electric, gassar ary services 7/741, 1852, 10.838 2023, 1768, 3.755, 23862, 2109, Finance, insurance freal estate \$207, 3354, 34.72 10588, 3734, 35.271 11711, 4336, Electric, gassar ary services 1/96, 100,000 186, 1166, 100,000 1406, 1406, Security 6 connadity brokers 148, 115, 77,600 105, 81, 77,600 106, 1406, 1406, Security 6 connadity brokers 148, 115, 77,600 105, 81, 77,600 299, 162, Insurance agents 44, 444, 100,000 448, 468, 100,000 488, 488, Real estate 6468, 648, 10.025 7626, 796, 10.438 2222, 892, Rolding companies 148, 100,000 220, 220, 100,000 362, 162, Rolding companies 148, 100,000 220, 220, 100,000 362, 162, Rolding companies 149, 3,825 1552, 62, 3,987, 1839, 795, Hiscellaneous business services 330, 38, 102,000 220, 220, 100,000 362, 162, Rolding companies 149, 3,825 1552, 62, 3,987, 1839, 795, Hiscellaneous business services 330, 38, 102,000 793, 793, 1495, 44-537 1075, 537, Riscellaneous preferences 151, 51, 100,000 652, 652, 100,000 830, 830, 830, Rolding fine membership organizations 40, 12, 12, 12, 100,000 793, 793, 193, 100,000 830, 830, 830, Rolectical feaths evices 1575, 480, 105,000 793, 793, 100,000 834, 610, 677, 670, 100,000 830, 830, 830, 830, 830, 830, 830		3847.	350.	9.095						
Instruments	Electrical machinery	1897.	621.	32.742	2475.	829.				34.237
Hisc manufacturing 895. 215. 2e.250 129, 317. 26.200 1571, 412, 20 brable manufacturing, nec 1294, 0. 0.0 18890. 0. 0.0 26734, 0. 120 120 120 120 120 120 120 120 120 120				79.000	0.	0.				79.000
Durable manufacturing.nec					1209.	317.	26.200			26.150
Transportation 5302. 0. 0.0 604. 0. 0.0 1075. 0. Communication 1237. 1227. 1027. 100.00 1414. 1474. 105.000 1683. 1683. Electric, gaséanc cary services 2072. 0. 0.0 2187. 0. 0.0 2283. 0. Wholesale & retail trade 17411. 1852. 105.83 20423. 1768. 8.755 23882. 2109. Finance, insurance featate 9.07. 3354. 356.412 10588. 3734. 35.271 11711. 4315. Finance, insurance services 0. 0. 100.000 1866. 1866. 100.000 1406. 1406. Security & conmodity brokers 148. 115. 77.600 105. 81. 77.600 209. 162. Insurance services 403. 903. 100.000 933. 931. 100.000 1026. 1026. Insurance services 408. 608. 100.050 948. 488. 100.000 488. 488. Real estate 0.66 608. 100.05 7626. 796. 10.000 362. 362. Services 8667. 3414. 364.98 10268. 3945. 38.418 11798. 4410. Personal services 8667. 3414. 364.98 10268. 3945. 38.418 11798. 4410. Residances repair services 338. 328. 39.125 941. 449. 449.517 1075. 537. Riscellaneous repair services 515. 513. 100.000 652. 652. 100.000 380. 383. Amusements & recreation 360. 27. 7.300 188. 29. 7.359 346. 32. Reducation services 175. 480. 10.050 180. 526. 29.100 1988. 549. Riscellaneous professional services 493. 493. 100.000 776. 517. 30.000 314. 314. Education services 175. 480. 0.050 776. 517. 30.000 314. 314. Education services 185. 0.000 776. 517. 30.000 314. 314. Education services 185. 0.000 776. 517. 30.000 319. 319. Regretices 175. 480. 0.000 776. 517. 30.000 314. 314. Education services 185. 0.000 776. 517. 30.000 319. 319. Regretices 189					18890.	0.	0.0			0.0
Communication 1237 1237 100,000 1474 1474 105,000 1683 1683 1684 1684 1684 1685 1							0.0	1079 î.		.0.0
Electric, gassaar vary services 072. 0. 0.0 2187. 0. 0.0 2243. 0. Mohesale i retail trade 17411. 1852. 10:6.38 20022. 1788. 8.755 21882. 2109. Prinance, insurance steal estate 9207. 3354. 36.412 10588. 3734. 35.271 11711. 4316. —Banking 109. 1095. 100.000 1186. 1186. 100.000 1406. 1406. Credit agencies 6. 0. 100.000 0. 0. 100.000 0. 0. 0. Security & commodity brokers 148. 115. 77.600 105. 81. 77.600 209. 162. Insurance cerriers 983. 993. 100.000 983. 983. 100.000 1026. 1026. Insurance cerriers 168. 199. 100.000 468. 468. 100.000 488. 488. Real estate 666. 648. 10.055 7626. 796. 10.488 222. 892. Real estate 866. 648. 10.050 7626. 796. 10.488 222. 892. Services 8667. 1418. 100.000 220. 220. 100.000 162. 162. Services 8667. 1418. 36.498 10266. 3945. 38.418 1179. 4410. Personal services 149. 49. 3.825 1552. 62. 1.997 1899. 79. Hiscellaneous business services 38. 328. 39.125 941. 419. 44.537 1075. 537. Hiscellaneous repair services 330. 38. 10.875 419. 46. 10.962 610. 67. Notion pictures 513. 513. 100.000 652. 652. 100.000 810. 830. Amusements 4 recreation 368. 27. 7.300 188. 29. 7.350 436. 32. Medical 4 health services 753. 680. 30.500 1806. 526. 29.100 1986. 549. Legal services 753. 763. 100.000 793. 793. 100.000 814. Services, nec 753. 763. 100.000 793. 793. 100.000 814. Services, nec 753. 763. 100.000 793. 793. 100.000 814. Services, nec 753. 763. 100.000 716. 573. 80.000 819. 555. Miscellaneous professional services 808. 619. 76.600 385. 385. 100.000 387. 385. 100.000 394. Services, nec 7625. 0. 0.0 2155. 0. 0.0 2778. 0. Government enterprises 808. 619. 76.600 387. 385. 100.000 389. 385. 100.000 394. Services, nec 7625. 0. 0.0 2155. 0. 0.0 2778. 0. Government and government enterprises 808. 619. 76.600 387. 383. 100.000 389. 535. Government enterprises 808. 619. 76.600 385. 385. 100.000 399. 5775. Government enterprises 808. 619. 76.600 387. 387. 100.000 389. 535. Government enterprises 808. 619. 76.600 385. 383. 100.000 389. 5775. Government enterprises 2						1474.	100.000	1683.	1683.	100.006
Molesale retail trade 1741. 1852. 10.38 20423. 1768. 9.755 21882. 2109. Molesale retail trade 1741. 1852. 10.38 20423. 1768. 9.755 21882. 2109. Molesale retail trade 1909. 1096. 100.000 10. 10588. 3734. 35.271 17711. 4316. 1366. 1366. 100.000 100. 1406	Placeric castern' ary dervices							2243.	0.	0.0
Finance, innurance freat estate 9207, 3354, 35.412 10588, 3734, 35.271 11713, 4336, 436, 436, 436, 436, 436, 436, 4	Wholesia t retail trade								2109.	8.030
Panking 1886									4336.	37.021
Credit agencies 6, 0 100.000 0, 0 100.000 0, 0 100.000 0, 0 Security & commodity brokers 148, 115, 77.600 105, 81, 77.600 209, 162, Insurance carriers 693, 903, 100.000 983, 983, 100.000 1026, 1026, Insurance agents 444, 100.000 468, 468, 100.000 488, 488, Real estate 668, 648, 100.25 7626, 796, 10.438 8222, 892, Bulding companies 148, 148, 100.000 220, 220, 100.000 362, 362, Services 8667, 1414, 34.488, 102.56, 1394, 38.418 11799, 4410, Personal services 1292, 49, 3.825, 1552, 62, 3.907, 1899, 79, Miscellaneous business services 638, 328, 328, 39.125 941, 419, 44,537 1075, 537, Miscellaneous repair services 151, 513, 100.000 652, 652, 100.000 830, 830, Amstenents & recreation 368, 27, 7.300 188, 29, 7.355 436, 12, Medical & health services 1575, 480, 30.500 1806, 526, 29,100 1988, 549, Legal services 753, 763, 100.000 652, 652, 100.000 810, 830, Mongrofit membership organizations 40, 419, 419, 419, 419, 419, 419, 419, 419										100.000
Security & commodity brokers 148, 115, 77.600 105, 81, 77.600 209, 162, Insurance carriers 563, 903, 100,000 983, 983, 100,000 1026, 1026, Insurance agents 444, 444, 100,000 468, 468, 100,000 488, 488, Real estate 568, 648, 100,025 7626, 794, 10,438 8222, 892, Rolding companies 148, 148, 100,000 220, 220, 100,000 362, 362, Services 8667, 3414, 38,498, 10268, 3945, 38,418 11796, 4410, Personal services 192, 49, 3,825 1552, 62, 3,987 1889, 79, Miscellaneous business services 338, 328, 3215, 391, 419, 44,537 1075, 537, Miscellaneous repair services 350, 38, 10,875 419, 46, 10,962 610, 67, Motion pictures 513, 513, 100,000 652, 652, 100,000 830, 830, Amusements & recreation 366, 27, 7,300 188, 29, 7,350 436, 12, Medical & health services 1575, 480, 30,550 1806, 526, 29,100 1988, 549, Legal services 763, 763, 100,000 793, 793, 100,000 814, 814, Education services 169, 419, 100,000 461, 461, 100,000 503, 503, Monprofit membership organizations 549, 419, 100,000 461, 461, 100,000 344, 344, Services, nec 1676, 408, 38,931 6332, 6332, 6332, 6332, 6342, Government and government enterprises 1694, 408, 38,931 6332, 6332, 6332, 6332, 6342, General government 5027, 1463, 29,100 10645, 3279, 30,800 20899, 5476, Government enterprises 368, 619, 76,600 318, 701, 75,600 1139, 871, General government 4369, 2006, 45,714, 4431, 2051, 43,011 4999, 2145, Government enterprises 277, 0,0,0 236, 0,0,0 367, 0,0 Private Sector 93650, 13340, 14,245 120591, 15317, 12,702 143367, 17538,										100.000
Theurance carriers										77.600
National Companies										100.000
Real estate 648. 648. 10.025 7626. 795. 10.438 822. 882. Nolding companies 148. 148. 100.000 220. 220. 100.000 362. 362. 362. Services 8667. 3414. 36.498 102.68. 3945. 33.418 11790. 4410. Personal services 1/92. 49. 3.625 1552. 62. 3.987. 1899. 79. Miscellaneous business services 838. 328. 39.125 941. 419. 44.537 1075. 537. Miscellaneous repair services 350. 38. 10.875 419. 46. 10.962 610. 67. Motion pictures 513. 513. 100.000 652. 652. 100.000 830. 830. Amusements & recreation 368. 27. 7.300 188. 29. 7.350 436. 32. Medical & health services 1575. 480. 30.500 1806. 526. 29.100 1988. 549. Education services 751. 753. 100.000 793. 793. 100.000 814. 814. Education services 751. 753. 100.000 793. 793. 100.000 814. 814. Education services 439. 439. 100.000 793. 793. 100.000 814. 814. Education services 439. 439. 100.000 793. 793. 100.000 819. 655. Miscellaneous professional services 464. 264. 100.000 385, 385. 100.000 819. 655. Miscellaneous professional services 464. 264. 100.000 385, 385. 100.000 819. 655. Priceral 5825. 0. 0.0 2155, 0. 0.0 2478. 0. Government and government enterprises 10504. 4088. 38.931 16332. 6033. 36.940 27037. 8493. Precieral 5835. 2082. 35.678 1560. 3982. 34.36 22038. 6348. General government 4389. 2006. 43.000 4769. 2051. 43.011 4999. 5476. Government enterprises 808. 619. 76.600 918. 703. 75.600 1139. 872. State and local 4055. 2066. 43.000 4769. 2051. 43.011 4999. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 316. 0. 0.0 136. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0.										100.000
Hulding companies 148, 148, 100,700 220, 220, 100,000 362, 362, Services 867, 3414, 36,498 10268, 3945, 38,418 11796, 4410, Persohal services 1292, 49, 3,825, 1552, 62, 3,987 1899, 79, Miscellaneous business services 818, 328, 39,125 941, 419, 44,537 1075, 537, Miscellaneous repair services 350, 38, 10,875 419, 46, 10,962 610, 67, Motion pictures 513, 513, 100,000 652, 652, 100,000 830, 830, Amusements & recreation 368, 27, 7,300 188, 29, 7,350 436, 12, Medical & health services 1575, 480, 30,500 1806, 526, 29,100 1986, 549, Legal services 751, 763, 100,000 793, 793, 100,000 814, 814, 814, 824, 824, 824, 824, 824, 824, 824, 82			, ,							10.850
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Miscellaneous business services 838. 328. 39.125 941. 419. 44.537 1075. 537. Miscellaneous repair services 350. 38. 10.875 419. 46. 10.962 610. 67. Notion pictures 513. 513. 100.000 652. 652. 100.000 830. 830. 830. Amusements & recreation 360. 27. 7.300 1888. 29. 7.350 436. 32. Medical & health services 1575. 480. 30.500 1806. 526. 29.100 1988. 549. Legal services 753. 763. 100.000 7933. 793. 100.000 814. 814. Education services 439. 439. 100.000 461. 461. 100.000 503. 503. Nonprofit membership organizations 540. 512. 80.000 716. 573. 80.000 819. 655. Miscellaneous professional services 264. 264. 100.000 385. 385. 100.000 344. 344. Services, nec 425. 0. 0.0 2155. 0. 0.0 2478. 0. Government and government enterprises 10500. 4088. 38.931 16332. 6033. 36.940 27037. 8493. Government enterprises 808. 619. 76.600 318. 703. 76.600 1139. 8715. State and local 4088. 38.93. 29.100 10645. 3279. 30.800 20899. 5476. Government enterprises 808. 619. 76.600 318. 703. 76.600 1139. 8715. Government enterprises 277. 0. 0.0 296. 0. 0.0 316. 0. Rest of the world 30.3. 0. 0.0 365. 0. 0.0 367. 0.										4.150
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Notion pictures 513. 513. 100.000 652. 652. 100.000 830. 830. 830. Amusements & recreation 368. 27. 7.300 188. 29. 7.350 436. 12. Medical & health services 1575. 480. 30.500 1806. 526. 29.100 1988. 549. Legal services 703. 763. 100.000 793. 793. 100.000 814. 614. Education services 139. 439. 100.000 461. 461. 100.000 503. 503. Nonprofit membership organizations 640. 512. 80.000 716. 573. 80.000 819. 655. Hiscellaneous professional services 454. 264. 100.000 385. 385. 100.000 344. 344. Services, nec 4825. 0. 0.0 2155. 0. 0.0 2476. 0. Government and government enterprises 10594. 4088. 38.931 16332. 6033. 36.940 27037. 8493. Federal 5835. 2082. 35.678 11563. 3982. 34.436 22038. 6348. General government 5027. 14632. 29.100 10645. 3279. 30.800 20899. 5476. Government enterprises 808. 619. 76.600 918. 703. 76.600 1139. 872. State and local 4055. 2006. 43.000 4769. 2051. 43.011 4999. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 316. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0.	Miscellaneous business services	838.	328.	39.125						11.050
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Education services 439. 439. 100.000 461. 461. 100.000 503. 503. Nonprofit membership organizations 0+0. 512. 80.000 716. 573. 80.000 819. 655. Hiscellaneous professional services 264. 264. 100.000 385. 385. 100.000 344. 344. Services, nec 1825. 0. 0.0 2155. 0. 0.0 2478. 0. Government and government enterprises 10504. 4088. 38.931 16332. 6033. 36.940 27037. 8493. Federal 5815. 2082. 35.678 1563. 3982. 34.436 22038. 6148. General government 5027. 1463. 29.100 10645. 3279. 30.800 20899. 5476. Government enterprises 808. 619. 76.600 918. 703. 76.600 1139. 874. State and local 4055. 2006. 43.000 4769. 2051. 43.011 4999. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 316. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0. Private Sector 93650. 13340. 14.245 120591. 15317. 12 702 143367. 17538. Private Sector 93650. 13340. 14.245 120591. 15317. 12 702 143367. 17538.	Legal services			100.000	793.	793.	100.000			100.000
Nonprofit membership organizations 040. 512. 80.000 716. 573. 80.000 819. 655. Hiscellaneous professional services 264. 264. 100.000 385. 385. 100.000 344. 344. Services, nec 1825. 0. 0.0 2155. 0. 0.0 2478. 0. 0. Government and government enterprises 10500. 4088. 38.931 16332. 6033. 36.940 27037. 8493. Federal 5835. 2082. 35.678 1563. 3982. 34.436 22038. 6342. General government 5027. 14633. 29.100 10645. 3279. 30.800 20899. 5476. Government enterprises 808. 619. 76.600 918. 703. 76.600 1139. 874. State and local 4005. 2006. 43.000 4769. 2051. 43.011 4939. 2145. Government enterprises 2006. 43.000 4769. 2051. 43.011 4939. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0.	Education services	•			461.					100.000
Miscellaneous professional services 264. 264. 100.000 385. 385. 100.000 344. 344. Services, nec 4925. 0. 0.0 2155. 0. 0.0 2478. 0. Government and government enterprises 10990. 4088. 38.931 16332. 6033. 36.940 27037. 8493. Federal 5835. 2082. 35.678 1563. 3982. 34.436 22038. 6342. General government 5027. 1463:. 29.100 10645. 3279. 30.800 20899. 5476. Government enterprises 808. 619. 76.600 918. 703. 76.600 1139. 87. State and local 4005. 2006. 43.000 4769. 2051. 43.011 4999. 2145. Government enterprises 277. 0. 0.0 296. 0. 0. 0. 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0. 0. 0. 0. 0. 0.	Nonprofit membership organizations				716.	573.				80.00
Services, nec 1825. 0. 0.0 2155. 0. 0.0 2478. 0. Government and government enterprises 10590. 4088. 38.931 16332. 6033. 36.940 27037. 8493. Federal 5835. 2082. 35.678 1563. 3982. 34.436 22038. 6342. General government 5027. 1463. 29.100 10645. 3279. 30.800 20899. 5476. Government enterprises 808. 619. 76.600 918. 703. 76.600 1139. 871. State and local 4005. 2006. 43.000 4769. 2051. 43.011 4999. 2145. General government 4388. 2006. 45.714 4473. 2051. 45.857 4663. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0. Private Sector 93050. 13340. 14.245 120591. 15317. 12 702 143367. 17538.	Miscellaneous professional services				385.	385.				100.000
Government and government enterprises 10990. 4088. 38.931 16332. 6033. 36.940 27037. 8493. Federal 5835. 2082. 35.678 1563. 3982. 34.436 22038. 6342. General government 5027. 1463: 29.100 10645. 3279. 30.800 20899. 5476. Government enterprises 808. 619. 76.600 918. 703. 76.600 1139. 874. State and local 4005. 2006. 43.000 4769. 2051. 43.011 4999. 2145. General government 4388. 2006. 45.714 4473. 2051. 45.857 4663. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0.	Services, nec				2155.	0.				0.0
Federal 5835. 2082. 35.678 11563. 3982. 34.436 22038. 6348. General government 5027. 1463: 29.100 10645. 3279. 30.800 20899. 5476. Government enterprises 808. 619. 76.600 918. 703. 76.600 1139. 87 State and local 4065. 2006. 43.000 4769. 2051. 43.011 4999. 2145. General government enterprises 277. 0. 0.0 296. 0. 0.0 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0. Private Sector 93650. 13340. 14.245 120591. 15317. 12 702 143367. 17538.		10600				6033.	36.940			31.41
General government 5027. 1463: 29.100 10645. 3279. 30.800 20899. 5476. Government enterprises 808. 619. 76.600 318. 703. 76.600 1139. 874. State and local 4005. 2006. 43.000 4769. 2051. 43.011 4999. 2145. General government 4389. 2006. 45.714 4473. 2051. 45.857 4663. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0. 0. 0.0 367. 0. 0. 0.0 367. 0. 0. 0.0 367. 0. 0. 0.0 367. 0. 0. 0.0 367. 0. 0. 0.0 367. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.		10300 ₀₄₂	2082							28.80
Government enterprises 808. 619. 76.600 918. 703. 76.600 1139. 871. State and local 4005. 2006. 43.000 4769. 2051. 43.011 4999. 2145. General government 4389. 2006. 45.714 4473. 2051. 45.857 4663. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0. Private Sector 93050. 13340. 14.245 120591. 15317. 12 702 143367. 17538.								20899.		26.20
State and local 4005. 2006. 43.000 4769. 2051. 43.011 4999. 2145. General government 4388. 2006. 45.714 4473. 2051. 45.857 4663. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0. Private Sector 93050. 13340. 14.245 120591. 15317. 12 702 143367. 17538.	Government enterprises			76.600				1139.	871.	76.60
General government 4389. 2006. 45.714 4473. 2051. 45.857 4663. 2145. Government enterprises 277. 0. 0.0 296. 0. 0.0 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0. Private Sector 93050. 13340. 14.245 120591. 15317. 12 702 143367. 17538.	State and local							. 4939.	2145.	42.90
Government enterprises 277. 0. 0.0 296. 0. 0.0 336. 0. Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0. Private Sector 93050. 13340. 14.245 120591. 15317. 12 702 143367. 17538.									2145.	46.00
Rest of the world 303. 0. 0.0 365. 0. 0.0 367. 0. Private Sector 93050. 13340. 14.245 120591. 15317. 12 702 143367. 17538.								336.	٥.	0.0
Private Sector 93050. 13340. 14.245 120591. 15317. 12 702 143367. 17538.									0.	0.0
y3000. 13340. 14.243 130511					'				1	
y3050. 13340. 14.243 120571 100110	Private Sector	02-57	43260	14 245	120591	15317.	12 702	143367.	17538.	12.23
	•	73020.	(3344)	170675						
					4.4	i.		; :		
All industries, TOTAL 104150. 17426. 16.734 136923. 21350. 15.593 170404. 26031.	All industries, TOTAL	104150.	17426.	16.734		21350-	15.593	170404.	26031.	15.27

		1944		1	1945		·	1946	,
	NAT.	INFOR-		NAT.	INFOR-		NAT.	Infor-	
INDUSTRY	INCOME	MATION	%INFO	INCOME	MATION	Cinis	INCOME	MATION	*INFO
									. 0.0
Agriculture	14495.	. 0.	0.0	15204.	0.	0.0	18237. 3011.	0. 0.	0.0
Mining	2700-	٥.	0.0	2794.	0.	15.600	6498.	1033.	15.900
Construction	4146.	659.	15.900	4292.	682.		49134.	4816.	9.802
Manufacturing	60331.	4575.	7.583	52186.	4486.	8.197	24864.	2917.	11.734
Nondurable goods	21006.	2260.	10.472	21222.	2389.	11.258		411.	23.978
Paper & allied products	1347.	32ô.	34.333	1339.	323.	24.156	. 1716.		92.643
Printing, publish sallied inds	2030.	1972.	92.214	2235.	2066.	92.429	2705.	2506.	0.0
Nondurable manufacturing, nec	176/3.	Ç,	0.0	17648.	0.	0.0	20443.	0.	
	39325.	2315.	6.040	30964.	2097.	6.773	24270.	1899.	7.823
Derable goods	1028.	117.	11.333	1052.	¹ 118.	11.222	1369.	152.	11,.111
Figuriture	5819.	535.	9.189	5087.	469.	9.221	4767.	441.	9, 25
Machinery, exc electrical	3720.	1301.	34.984	3056.	1092.	35.732	2385.	870.	36.479
Electrical mathinery	0.	0.	79.000	0.	0.	79.000	0.	0.	79.000
Instruments		423.	26.100	1605.	418.	26.050	1675.	435.	26.000
Misc manufacturing	1619.		0.0	20164.	0.	0.0	14074.	٥.	0.0
Durable manufacturing, nec	27139.	0.		10536.	0.	0.0	10341.	0.	0.0
ransportation	11243.	0.	0.0		1929.	100.000	2182.	2182.	100.000
ommunication .	1822.	1822.	100.000	1929.	0.	0.0	2614.	0.	0.0
lectric,gas&sanitary services	2227.	0.	0.0	2290.		10.193	34604.	3676.	10.62
holesale & retail trade	25708.	2443.	9.481	28010.	2855.	38.700	15540.	6217.	40.00
inance,insuranceareal estate	12312.	4636.	37.654	12987.	5026.		. 2228.	2228.	100.00
Banking	1658.	1658.	100.000	1824.	1824.	100.000		2220.	100.00
Credit agencies	0.	0.	100.000	0.	0.	100.000	0.		77.60
Security & commodity brokers	223.	173.	77.600	398.	301.	77.600	394.	306.	
Insurance carriers	1028.	1028.	100.000	1021.	1021-	100.000	1397.	1397.	100.00
Insurance agents	529.	529.	100,000	568.	560.	100.000	750.	750.	100.00
Real estate	8594.	968.	11.262	8915.	1041.	11.675	10504.	1270.	12.08
Holding companies	280.	280.	100.000	271.	2	100.000	267.	- 267.	100.00
ervices	13158.	4865.	36.973	14128.	5218.	36.934	16670.	6398.	38.38
Personal services	2015.	87.	4.312	2121.	95.	4.475	2561.	119.	4.63
Miscellaneous business services		659.	55.362	1255.	763.	60.775	1573.	1041.	66. 18
	1190.	.78.	11.137	703.	79.	11.225	837.	95.	11.31
Miscellaneous repair services	701.		100.000	9 29.	920.	100.000	1120.	1128.	100.00
Motion pictures	882.	882.		613.	46.	7.500	815.	62.	•7.55
Amusements & recreation	567.	38.	7.450		686.	27.900	3025.	904.	29.90
Medical & health services	2341.	663.	20.300	2459.	930.	100.000	957.	957.	100.00
Legal services	874.	874.	100.000	930.	569.	100.000	658.	658.	100.00
Education services	532.	532.	100.000	569.		80.000		954.	80.00
Nonprofit membership organizations	ýlo.	733.	80.000	903.	786.		480.	480.	100.00
Miscellaneous professional services	320.	320.	100.000	335.	335.	100.000	3443.	0.	. 0.0
Services, nec	2880.	0.	0.0	3231.	. 0.	0.0		8175.	36.01
Sovernment and government enterprises	33716.	10083.	29.905	36764.	11662.	31.722	22699-	5307.	32.96
Pederal	28438.	7804.	27.443	31034.	9177.	29.570	16100.		28.50
General government	27250.	6694.	25.300	29786.	8221.	27.600	14606.	416,3.	76.60
Government enterprices	1188.	910.	76.600	1248.	/15t •	76.600	1494.	1144.	
State and local	5278.	2279.	43.170	5730.	248//•	43.378	6599.	2868.	43.4
General government	4938.	2279.	46.143	5370.	2486.	46.286	6177.	2868.	46.42
Government enterprises	340.	0.	0.0	360.	0.	0.0	422.	0.	0.0
Rest of the world	423.	0.	0.0	369.	0.	0.0	571.	0.	0.0
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		•		•	,			1.111	ji je ni
Private Sector	148885.	19000.	12.762	144725.	20197.	13.955	159402.	24323.	15.25
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ALL CLUSTER PROFES		**	• مم فم	404000	34058	17.554	182101.	32498.	17.84
All industries, TOTAL	162601.	29083.	15.927	181489.	31859.	11.024	145 14 14	*****	
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inising (421) 9. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.			1947	100		1948			1949	
### CHRONE MATION \$ INFO INFO TROOK \$ MATION \$ INFO INFO		NAT.	INFOR-		NAT.	INFOR-		NAT.	INFOR-	
prioriture	NDUSTRY			%INFO	INC E	MATION	%INFO	INCOME	MATION	*INFO
priculture (MV	160.3			22271	. 0.	0.0	17349.	0.	
Linding	igriculture .							4552.		
matericine	lining							10612.	1755.	
Americation goods 24015 3071 12.0.8 2071 1508 11.155 3055 3071 12.0.8 2071 22.0.8 22	Construction							64844.	6846.	10.558
Nondurable goods									3779.	12.368
Piper Allied products 1221 279 27.80 20.90	· · · · · · · · · · · · · · · · · · ·									23.411
Printing, publishes allied index 1061, 2891, 91.00, 0.0 27201, 10.0.0.0 24549, 0.0.0.0 2007able goods 1724, 168. 11.000 1793, 135.04, 1270, 8.955 12268, 1056, 8.945 1200 1792, 168. 11.000 1793, 1311, 11.000 1766, 129, 11.055 1792, 168. 11.000 1793, 1311, 11.000 1766, 129, 11.055 1792, 168. 11.000 1793, 1311, 11.000 1766, 129, 11.055 1792, 1392, 1										
Nondarable manufacturing.nec 1751. 0. 0.0 2701. 8.945 94186. 1061. 8.945 106										
Durable goods 11.61		22753.								
Pursture 1024. 108. 11.000 1519. 590. 9.105 5194. 518. 9.3a7 8achinery excelectrical 6217. 577. 9.284 619. 590. 9.105 5194. 518. 9.3a7 8achinery 3461. 1289. 37.226 6031. 1531. 37.373 3794. 1794. 1819. 30.721 1794. 1819. 30.721 1794. 1819. 30.721 1794. 1819. 30.721 1819. 30.721 379.000 1018. 820. 79.000 1018. 820. 79.000 1018. 820. 79.000 1018. 820. 79.000 1018. 820. 79.000 1018. 820. 79.000 1018. 820. 79.000 1018. 820. 79.000 1018. 820. 80.00 1855. 126. 8.622 8.		31461.								
Machinery 3661 1259, 37.225 0.01 1531 17.973 1394 1839, 38.727	•	1524.	168.	11.000						
Electrical machinery			577.	9.284						
Distriction abstinatery										
Misc manufacturing					1038.					
### Sandarderuring 16475 0. 0.0 21687 0. 0.0 21091 0. 0.0 0.						£138.				
Durable manufacturing, nec 1873. 0. 0.0 12809. 0. 0.0 12666. 0. 0.0 12616. 100,000 communication 12301. 2000. 100,000 2220. 2820. 100,000 3036. 300,86. 100,000 communication 2300. 2000. 100,000 3176. 0. 0. 0. 3652. 0. 0.0 11ectric, gasiasmitary services 2751. 0. 0. 0. 0. 3176. 0. 0. 0. 3652. 0. 0.0 11ectric, gasiasmitary services 2751. 0. 0. 0. 0. 3176. 0. 0. 0. 3652. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.							0.0			
Transportation 1300 2000 100,000 820. 2820. 100,000 3016. 3036. 100,000 communication 1300 2000. 100,000 1316. 0. 0. 0 1552. 0. 0.0 constraints of the communication 1300 2000. 1316. 0. 0. 0. 1176. 0. 0. 0. 1652. 0. 0.0 constraints of the communication 1300 2000. 1317. 0. 0. 0. 1317. 0. 0. 0. 1318. 3909. 4373. 11.198 holesale i ratali trade 1519. 6681. 18.866 19083. 65973. 36.541 20469, 7740. 37.815 [inance, insurance trade estate 1619]. 6681. 18.866 19083. 65973. 36.541 20469, 7740. 37.815 [inance, insurance trade estate 1619]. 6681. 18.866 19083. 65973. 36.541 20469, 7740. 37.815 [inance, insurance trade estate 1619]. 6681. 18.867. 100.000 2591. 2591. 100.000 -170]. 2703. 100.000 constraints of communication 1518. 77.600 292. 227. 77.600 311. 241. 77.600 2502. 277. 77.600 311. 241. 77.600 292. 227. 77.600 311. 241. 77.600 2502. 279. 278. 2000. 2392. 2312. 100.000 199. 1999. 100.000 677. 677. 100.000 701. 701. 100.000 109. 1991. 100.000 677. 677. 100.000 701. 701. 100.000 88. 88. 100.000 677. 677. 100.000 701. 701. 100.000 88. 88. 100.000 677. 677. 100.000 701. 701. 100.000 88. 88. 100.000 800. 800. 80								12066.		
Communication 1700								3036.	3036.	
	Communication								٥.	
Molesale i retail trade									4373.	
Planace, insurance real estate 10 7 . 626 . 38.600 358 . 234 . 100.000 270 . 2703. 100.000 388 . 284 . 284 . 100.000 270 . 2703. 100.000 284 . 284 . 100.000 270 . 2703. 100.000 270 . 2703. 100.000 270 . 2										37.815
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Insurance carriers	Security & commodity brokers	217.								
Insurance agents			1468.							
Real estate			858.	100.000						
Bolding companies 45. 45. 100,000 46. 46. 100,000 19. 19. 100,000 services 1803. 7667. 39,059 19976. 7864. 39,367 20410. 8219. 40,268 Personal services 6400. 127. 4,800 2842. 136. 4,800 2912. 146. 5,000 Kiscellaneous business services 1654. 1884. 71.600 1436. 1028. 71.600 1471. 1050. 71.350 Miscellaneous repair services 934. 106. 11,400 704. 80. 11,400 651. 844. 12,880 Miscellaneous repair services 1045. 100.000 903. 903. 100.000 886. 886. 100.000 Motion pictures 1045. 1005. 100.000 903. 903. 100.000 886. 886. 100.000 Motion pictures 1045. 1005. 100.000 903. 903. 100.000 886. 886. 100.000 Motion pictures 1045. 1005. 1000.000 1921. 1223. 31.200 4040. 1236. 30.500 1461. 100.000 1257. 1257. 100.000 1257. 1257. 100.000 1257. 1257. 100.000 1257. 1257. 100.000 1257. 1257. 100.000 1257. 1257. 100.000 1257. 1257. 100.000 Morprofit membership organizations 1306. 1046. 80.000 1462. 1170. 80.000 1652. 1322. 80.000 Morprofit membership organizations 1306. 1046. 80.000 1462. 1170. 80.000 1652. 1322. 80.000 Miscellaneous professional services 588, 589, 100.000 1462. 1170. 80.000 1652. 1322. 80.000 Miscellaneous professional services 588, 589, 100.000 1462. 1170. 80.000 1652. 1322. 80.000 Miscellaneous professional services 588, 589, 100.000 1462. 1170. 80.000 1652. 1322. 80.000 Miscellaneous professional services 588, 589, 100.000 1462. 1170. 80.000 1652. 1322. 80.000 Miscellaneous professional services 588, 589, 100.000 1400. 1140. 1140. 100.000 1654. 1664. 1164. 1164. 100.000 1654. 100.0										
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Personal Services						7864.				
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All industries, TOTAL 199068. 33947. 17.053 225860. 37982. 16.816 219189. 40385. 18.425	Private Sector	180369.		14.927	206113.	30294.	14.698	17/1940	J17V0.	1906/6
All industries, TOTAL 199068. 33947. 17.053 225860. 37982. 16.816 219189. 40385. 18.425		,					•			4
	All industries, TOTAL	19906B.	33947.	17.053	225860.	37982.	16.816	219189.	40385.	18.425

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		1950			1951			952/	
	NAT.	INFOR-		NAT.	INFOR-		NAT.	INFOR-	•
INDUSTRY	INCOME	MATION	%INFO	INCOME	MATION	%INFO	INCOME	MATION	*Inf
INDUSTR.	21100111		,			.i			-
0.00	18290.	0.	0.0	29994.	0.	0.0	20035.	0.	0.0
Agriculture	5259	0.	0.0	5753.	0.	0.0	5513.	0.	0.0
Mining	11972.	2055.	17.167	14183.	2525.	17.800	15306.	2724.	- 17.80
Construction	76290	7907.	10.363	90318.	9237.	10.227	92605.	10059.	10.86
Manufacturing	33304.	4074.	12.211	38412.	4449.	11.583	38259.	4635.	12.11
Nondurable goods	2706.	623.	23.022	3386.	766.	22.633	3151.	701.	22.24
Paper & allied products	3691.	3451.	93.500	3930	3683.	93.714	4188.	3934.	93.9
Printing, publish Gallied inds	26967.	0.	0.0	31096.	0.	0.0	30920.	0.	0.0
Nondurable manufacturing, nec	42532.	3833.	8.927	51906.	4788.	9.224	54346.	5425.	9.9
Durable goods	1403.	156.	11.111	1538.	172	11.167	1604.	180.	11.2
Furniture		621.	9.379	9140.	850.	9.411	9962.	941.	9.4
Machinery, exc electrical	6619.		39.468	5758.	2316.	40.216	6584.	2697.	40.9
Electrical machinery	4823.	1904.	79.111	1619.	1282.	79.167	1827.	1447.	79.2
Instruments	1268.	1003.	8.644	1829.	159.	8.667	1839.	160.	8.6
Misc manufacturing	1726.	149.		32022.	0.	0.0	32530.	Q.	0.0
Durable manufacturing, nec	27091.	0.	0.0		, O.	0.0	15509.	Q.	0.0
Transportation	13380.	·	0.0	14962.	3868.	100.000	4283.	4283.	.100.0
Communication	3347.	3347.	100.000	3868.		0.0	5053.	0.	0.0
Electric, qas&sanitary services	.912وز	0.	0.0	4551.	0. .	10.487	46694.	5121.	10.5
Wholesale & retail trade	40950.	4527.	11.056	45100.	4730.	37.586	27421.	10562.	38.5
Pinance, insurance Freal estate	2/811.	8433.	36.969	24932. c	9371.		3818.	3818.	100.0
Banking	3035.	3035.	100.000	3483.	3483.	100.000		-393.	100.0
Credit agencies	-111.	-313.	100.000	-371.	-371.	100.000	-393.	-393. 345.	77.6
Security & commodity brokers	415.	322.	77.600	428.	332.	77.600	444.	2628.	100.0
Insurance Carriers	2205.	2205.	100.000	2269.	2269.	100.000	2628.		100.0
Insurance agents	824.	824.	100.000	938.	918.	100.000	1084.	1084.	14.1
Real estate	16545.	2260.	13.660	18033.	2568.	14.240	19676.	2916.	
Holding companies	100.	100.	100.000	152.	152.	100.000	164.	164.	100.0
Services	21702.	8756.	40.345	23473.	9607.	40.927	24983.	10383.	41.
Personal services	3024.	157.	5.200	3167≈	171.	5.400	3201.	184.	5.4
Miscellaneous business services	1680.	1195.	71.120	1941.	1376.	70.880	2199.	1553.	70.0
Miscellaneous repair services	007.	96.	14.360	752.	119.	15.840	815.	141.	17.
Motion pictures	867.	867.	100.000	878.	870.	100.000	870.	870.	100.
Amusements & recreation	789.	67.	0.520	821.	.74.	8.980	001.	83.	9.
Medical & health services	4407.	1237.	29.200	4823.	1346.	27.900	5269.	1428.	27.
Legal services	1344.	1344.	100.000	1455.	1455.	100.000	1515.	1515.	100.
Education services	1078.	1078.	100.000	1139.	1139.	100.000	1189.	1189.	100.
Nonprofit membership organizations	1766.	1413.	80.000	1932.	1546.	80.900	2054.	1643.	80.
Miscellaneous professional services	1252.	1252.	100.000	1504.	1504.	:00.000	1776.	1776.	100.
Services, nec	4628.	0.	0.0	5061.	0.	0.0	5134.	0.	0.
Covernment and government enterprises	23574.	9030.	38.307	30396.	10960.	36.056	34650.	12460.	35.
Coveriment and dovernment ancerbrases	12669.	4262.	33.644	18377.	5690.	31.009	21342.	6667.	31.
General government	10734.	2780.	25.900	16237.	4059.	25.000	18909.	4803.	25.
Government enterprises	1935.	1482.	76.600	2140.	1639.	76.600	24334	1864.	74
State and local	10905.	4768.	43.724	12019.	5261.	43.774	13308.	• 5793.	4j.
General government	10145.		47.000	11160.	5261.	47.143	12252.	5793.	47. O.
Government enterprises	760.	0.	0.0	859.	0.	0.0	1056.	0.	
Rest of the world	1333.	0.	0.0	1529.	0.	0.0	1473.	0.	0.
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3									
•	110161	35025.	15.975	258663.	39337.	15.208	258875.	43132.	16.
Private Sector	219252.	330434	141313	-			•		
' .		ı				',	!		
311 induseries MOMBE	242826.	44055.	18.143	289059.	50297.	17.400	293525.	55592.	18.
All industries, TOTAL	444440		100170					• 5	ı

		1953			1954			1955	
	NAT.	INFOR-		NAT	INFOR-	,	NAT.	INFOR-	
	INCOME	MATION	%INFO	INCOME	MARTON .	%INFO	INCOME	MATION	%INFO
INDUSTRY	INCOME	MITTON	121110	2,100,100			 	, ,	
	4704		0.6	17 132.	, 64.	0.0	16104.	0.	0.0
Agriculture	17916.	. 0.	0.0	5271.	Ċ.	0.0	5901.	0.	0.0
Hining	5459.	293b.	18.700	15690.	2934	18.700	16757.	3167.	18.90
Construction	15701.	10954.	10.899	94708	10834.	11.439	137976.		10.88
Manufacturing .	100501.		12.394	39719.	3181.	13.044	44046.	5666.	12.80
Mondurable goods	40332.	4999.		3410.	732.	21.467	3810.	ģ⊃3.	21.07
Paper & allied products	3337.	729.		4715.	4449.	94.357	5142	4863.	94.5
Printing, publish allied inds	4535.	4269.	94.143	31594.	0.	0.0	35094.	0.	0.0
Nondurable manufacturing, nec	32460.	0.		54989	. 5693.	10.280	62930.	6089.	9.5
Durable goods	b0169,	5955.			177.	11.333	1808.	206.	11.3
Purniture	1018.	182.		1558.		9.505	9430.	899.	9.5
Machinery, exc electrical	10048.	952.		9140.	869.	42.458	7123.	3978.	43.2
Electrical machinery	7331.	3058.		6688.	2840.		2171.	1/24.	79.3
Instruments	2009.	1593.		2021.	1603.	79.333	2084.	182.	8.7
Misc manufacturing	1955.	170.		1888.	165.	8.733	41314.	0.	0.0
Durable manufacturing, nec	37204.	' 0.	0.0	33694.	0.	0.0		0.	0.0
Transportation	15861.	0.	0.0	14639.	0.	0.0	15962.	-	100.0
	4761.	4761.	100.000	5065.	5065.	100.000	5660.	5660.	0.0
Communication Electric, gasésanitary services	5435.	0.		5928.	0.	0.0	6222.	0.	
Wholesale & retail trade	47285.	5306.		48271.	5701.	11.810	52296.	6091.	
Finance, insuranceireal estate	30307.	11952		33053.	:3074.	39.555	35307.	13948.	39.5
	4230.	4230		4465.	4465.	100.000	4775.	4775.	100.0
Banking .	-414.	-414		-341.	- 341.	100.000	-303.	-3B3.	100.0
Credit agencies	476.	369.			529. `	77.600	805.	625.	77.6
Security & commodity brokers				3297.	3297.	100.000	3256.	3256.	100.0
Insurance carriers	3085.	1192		1330.	1330.	100.000	· 1372. /	1372.	100.0
Insurance agents	1192.			23435.	3609.	15.400	. 25293.	4054.	16.0
Real estate	21570.	3322.	•	185.	185.	100.000			100.0
Holding companies	168.			27687.	11790.	42.581	31053.	13248.	42.6
Services	26743.	11228		3505.	203.	5.800	3665.	211.	5.7
Personal services	34214	198		2663.	1875.		3003.	2189.	72.
, Miscellansous business services	2478.	1745		826.	15.	18.800	877.	173.	19.
Miscellaneous repair services	838.	158.		955.	955.	100.000~		981.	100.
Motion pictures	a50.	850		1040.	103.	9.900	1122.	122.	10.
Amusements & recreation	365.		4 -	5871.	1391.	23.700		1731.	. 24.
Medical & health services	5798.	1560.			1758.	100.000	1926.		100.
Legal services	1006.	1006		1758.	1370.	100.000	1488.	1488.	100.
Education services	1267.	1267		1370.	1953.	80.000	2628.	2102.	80.
Monorofit membership organizations	2267.	1814		2441.		100.000	2324.	2324.	100.
Miscellameous professional services	1934.	1934		2026.	2026.	, 0.0	5946.	0.	0.
Services, DEC	5299.	0	5.0	523?.	93550	27.560	38056.	14605.	38.
Government and government enterprises	35487.	12950		36075.	13550.	32.480	20945.	7049.	33.
Federal	21015.	, 6626,	31.530	20190.	6558.		18357.	5067.	27.
General covernment	18608.	4782		17780.	4712.	26.500	2588.	1982.	76.
Government enterprises	2407.	1844		2416.	1846.		17111.		44.
State and local	14472.	6324		15885.	6992.	44.017	15837.		
General government	13334.	6324		14698.	6992.	47.571	1274.	. ,,,,,,	Ö.
Government enterprises	1138.	. 0		1187.	0.			Ů.	
Rest of the world	1528.	0	0.0	180 9 .	0.	0.0	1979.	٧.	44
			٠.			J			
		, N	• .*						
	:						*****	e1848	10
Private Sector	271497.	47137	. 17.362	269253.	49398.	18.346	295217.	53868.	18.
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	• .				£ 62947.	20.616	333274.	68473.	26.
All industries, TOTAL	306984	600B8	19.574	305328.	4 04341.	40.010	3336143		
	'		, ,						

		1956		j	1957		. 19	58	
	NAT.	INFOR-		NAT.	INFOR-	,	NAT.	INFOR-	
	INCOME	MATION	%INFO	INCOME	MATION	%INFO	INCOME	MATION	%INFO
INDUSTRY				16240.	0.	0.0	18610.	0.	0.0
Agriculture	16109.	0.	0.0 0.0	0530.	0.	0.0	5730.	0.	0.0
Mining	6586.	0.	19.100	19405.	3745.	19.300	18691.	3646.	19.300
Construction	18649.	3562.		116348.	13760.	11.826	107900.	13331.	12.355
Manufacturing	113175.	13014.	11.499		6351.	13.695	45771.	6274.	13.706
Nondurable goods	46253.	6087.	13.161	46375.	837.	20.300	4084	929.	20.300
Paper & allied products	4294.	689.	20.689	4124.	5514.	95.000	5731.	5444.	95.000
Printing, publish allied inds	. 5484.	5198.	94.786	5804.	0.	0.0	35956.	0.	0.0
Nondurable manufacturing, nec	36470.	0.	0.0	36447.		10.588	62129.	7057:	11.359
	66922.	6926.	10.350	69973.	7409.		1804.	207.	11.500
Durable goods	1929.	221.		1939.	223.	11.500		950.	9.600
Furniture	11300.	1088.	9.568	11529.	1107.	9.600	9894.	3755 .	44.700
Machinery, exc electrical	7967.	3502.	43.953	8721.	3898.	44.700	8400.		79.500
Electrical machinery	24 2 Å .	1926.	79.444	2503.	1990.	79.500	2463.	1958.	
Instruments	2173.	191.	8.778	2170.	191.	8.800	2127.	. 187.	8.600
Misc manufacturing	41063.	. 0.	0.0	43111.	, 0.	0.0	37441.	0.	0.0
Durable manufacturing, nec	17005.	0.	0.0	17446.	0.	0.0	16545.	0.	0.0
Transportation	b 159.	6159.	100.000	6657.	6657.	100.000	701R.	7014.	100.000
Communication	6643.	Ü.	0.0	7000.	0.	0.0	7450.	. 0.	0.0
Electric, gas&sanitary services		6535.	11.916	57292.	7104.	12.399	58369.	7243.	- 12.410
Wholesale & retail trade	54844.	14923.	40.078	39779.	1ь 162.	40.630	42852.	1760B.	41.091
Finance, insurance freal estate	37235:	5361.	100.000	5750.	5750.	100.000	6017.	6017.	100.000
Banking	5361.		100.000	-457.	- 457 •	100.000	-596.	-596.	100.000
Credit agencies	-466.	.≈#66 .		935.	726.	77.600	1192.	925.	77.600
Security & commodity brokers	866.	672.	77.600	3227:	3227.	100.000	3979.	3979.	100.000
Insurance carriers	305B.	3058.	100.000	1635.	1635.	100.000	1740.	1740.	100.000
Insurance agents	1513.	1513.	100.000		4931.	17.400	30238.	5261.	17.400
Real estate	26563.	4445.	16.733	28338.	351.	100.000	282.	282.	100.000
Holding companies	340.	340.	100.000	351 .		44.783	38339.	17174.	44.796
Services	33816.	14809.	43.794	36375.	16290.	5.700	4241.	,242.	5.700
Personal services	3921.	225.	5.733	4200.	219.	77.900	4096	3191.	77.900
Miscellaneous business services	J484.	2627.	75.400	3834.	2987.	21.700	987.	214.	21.700
Miscellaneous repair services	978.	203.	20.733	1042.	226.		827.	827.	1,0.000
Motion pictures	951.	951.	100.000	900.	900-	100.000	1377.	175.	12.700
Amusements & recreation	1197.	141.	11.767	1236.	157.	12.700,		2294.	25.300
Medical & health services	7526.	1889.	25.100	8272.	2060.	24.900	9068.	2232.	100.000
Legal services	1979.	1979.	100.000	2111.	•	100.000	2232.	1999.	100.000
Education services	1685	1685.	100.000	1847.	1847.	100.000	1999.		80.000
Nonprofit membership organizations	2825.	2260.	80.000	3070.	2456.	80.000	3337.	2670.	100.000
Miscellaneous professional services	2850.	2850.	100.000	3207.	3287.	100.000	3331.	3331.	0.0
Services, nec	6420.	0.	0.0	6556.	. 0.	0.0	6844.	0.	
Covernment and government enterprises		15753.	38:753	43407.	17118.	39.437	46864.	18885.	40.297
	21719.	7320.	33.703	22481.	7730.	34.387	23792.	8527.	
Pederal covernment	10975.	5218.	27.500	19567.	5498.	28.100	20545.	6040.	29.400
General government Government enterprises	2744	2102.	76.600	2914.	-2232.	76.600	3247.	2487.	76.600
State and local	18931.	8433.	44.545	20926.	9388.	44.862	23072.	10357.	44.692
General government	17624.	8433.	47.857	19558.	9388.	48.000	21578.	10357	48.000
Government enterprises	1310.	0-	0.0	1368.	٠٥.	0.0	1494.	0.	0.0
Rest of the world	2166.	0.	0.0	2301.	ı 0.	0.0	2243.	0.	0.0
REST OF THE WORLD	•	٠.	•••	,				·	
Private Sector	312367.	59002.	18.888	325379.	63718-	19.583	323943.	66017.	20.379
			٠.				184449	ሰ በስን	22.896
All industries, TOTAL	353037.	74755.	21.175	368786.	80836.	21.920	370807.	84902.	44.070

	,	1959		•	1960		, 1	961	1
	NAT.	INFOR-		NAT.	INFOR-	· ·	NAT:	INFOR-	` .
			%INFO	INCOME	MATION	%INFO	INCOME	MATION	%INFO
INDUSTRY	INCOME	MATION				0.0	18118.	0.	0.0
	10399.	. 0.	0.0	17468.	, 0. , 0.	0.0	5607.	0.	0.0
Agriculture	5408.	0.	0.0	561J. 20972.	3859.	18.400	21726.	3867.	17.800
Mining	20523.	3880.	18.900	125448.	16327.	13.015	124698.	16902	13.555
Construct on	124163.	15528.	12.506	51818.	-7281.	14.050	52532.	7425.	14.134
Manufacturing	51243.	6901.	13.467 20.150	4706.	(* 941)	20.000	4887.	9702	19.850
Nondurable goods Paper & allied products	4629.	933.	95,050	6666.	6339.	95.100	6784.	6455.	95.150
Printing, publish & allied inds	0279.	5968.	32,020	40446.	0,	0.0	40861.	0.	0.0
Nondurable manufacturing, nec	+0335.	. 0.	11.830	73630.	9047.	12.287	72166.	9477.	13.133
Durable goods	72920.	8627. 241.	11.625	2098.	247.	11.750	2053.	244.	11.875
Furniture	۷071 .	1190.	10.125	11919.	1269.	10.650	11859.	1325.	11.175
Machinery, exc electrical	- 11751.	4699.	46.075	10496.	4980.	47.450	10887.	5316.	48.825
Electrical machinery	10198. 2881.	2291.	19.525	2948.	2345.	79.550	2989.	2378.	79.575
Instruments	2345.	206.	8.800	2332.	205.	8.800	2435.	214.	8,800
Misc manufacturing	1343. 43674.	0.	0.0	43837.	Q.	0.0	41943. *	0.	0.0
Durable manufacturing, nec	17869.	0.	0.0	18141.	0.	0.0	18252.	0.	0.0
Transportation	7728.	7728.	100.000	8228.	8228.	100.000	8612.	8612.	100.000
Communication	8140.	0.	0,0	8923.	0.	0.0	9331.	0.	0.0
Electric, gas&sanitary services	63423.	7733.	12.193	64737	8235.	12.721	65743.	8413.	12.797
Wholesale & retail trade	40296.	19254.	41.588	48608.	20487.	42.148	50792.	21335.	42.005
Pinance, insurance Freal estate	6637.	6637.	100.000	7255.	7255.	100.000	7322.	7322.	100.000
Banking	-1022.	-1022.	100.000	-1076.	-1076,	100.000	-1324.	-1324.	100.000 77.600
Credit agenoies	1394.	1082.	77.600	1219.	946.	77.600	1675.	. 1300.	170.000
Security & commodity brokers	4559.	4559.	100.000	4016.	4816.	100.000	5055.	5055. 2123.	100.000
lisurance carriers	1868.	1868.	100.000	2070.	2070.	100.000	2123.		18.225
Insurance agents	32469.	5739.	17.675	33940.	6092.	17.950	35563.	6481.	100.000
Real estate	391.	391.	100.000	384.	384.	100.000	378.	378.	45.787
Holding companies	42078.	19017.	45.195	44648.	20159.	45.151	47441.	21722. 263.	5.475
Services Personal services	4470.	251.	5.625	4608.	256.	5.550	4796. 5548.	4122.	74.300
Miscellaneous business services	4715.	361ó.	76.700	5091.	3844.	75.500	1170.	246.	21.025
Miscellaneous repair services	1009.	217.	21.475	1094.	232.	21.250 100.000	923.	923.	100.000
Motion pictures	894.	894.	100.000	891.	891.	10.050	1784.	156.	8.725
Amusements & recreation	1507.	171.	11.375	1662.	167.	24.400	11307.	2668.	23.600
Medical & health services	10127.	2491.	24,600	10636.	2595.	100.000	3064 .	3064.	100.000
Legal services	2612.	2614.	100.000	2695.	2695. 2419:	100.000	2696	2696.	100.000
Education services	2155.	2195.	100.000	2419.	3341.	80.000	4531.	3625.	80.000
Nonprofit membership organizations	3756.	1005.	80.000	4176. 3719.	3719.	100.000	3959.	3959.	100.000
Miscellaneous professional services	3564.	3564.	100.000	7657.	0.	0.0	7661.	0.	0.0
Services, nec	7229.	0.	0.0	52707.	21640.	41.057	56356.	23538.	. 41.766
Government and government enterprises	49088.	19944.	40.671	25303.	8956.	35, 395	26460.	9627.	36.382
Pederal Pederal	24205.	8652.	35.746 29.200	21676.	6178.	28.500	22594.	6665.	29.500
General government	10891.	6092. 2561.	76.600	3627.	2778.	76.600	1866.	2961.	76.600
Government enterprises	3343.	11312.	45.461	27404.	12684.	46.285	24896.	13911.	46.532
State and local	24883.	11312.	48.900	25470.	12684.	49.800	279 14.	13911.	49.800
General government	23133. 1750.	0.	0.0	1934.	0.	0.0	1962.	0.	0.0
Government enterprises	2416.	0.	0.0	2477.	0.	. 0.0	3085.	. 0.	0.0
Rest of the world	24104	••	, ***						
Private Sector	354529.	73139.	20.630	365263.	77295.	21.162	373405.	80852.	21.652
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All industries, TOTAL	403617.	93104.	23.067	417970.	98935.	23.670	429761.	104389.	24.290

		1962			1963		19	64	<u>.</u>
AAA AAAA	NAT.	INFOR-	igidiy.	NAT.	INFOR-	(.	NAT.	INFOR-	
INDUSTRY	INCOME	MATION	%info	INCOME	MATION	%INFO	INCOME	MATION	*INFO
Agriculture	18636.	. 0.	0.0	18463.	0.	0.0	17620.	0.	0.0
ining	5433.	·0.	0.0	5776.	0.	0.0	5987.	0.	0.0
onstruction	23202.	4107.	17.700	24707.	4472.	18.100	27077.	4711.	17,400
lanufacturing	135999.	18503.	13.605	143189.	19182.	13.396	154781.	21159.	13.732
Nondurable goods	54958.	7755.	14.111	57224	8084.	14.126	613.4.	9013.	14.698
Paper & allied products	5088.	1002.	19.700	5264	1037.	19.700	5579.	1149.	20.600
Printing, publish sallied inch	1 7093.	6753.	95.200	7398.	7047.	95.250	Ð252.	7864.	95.300
Nondurable manufacturing, neg	42777.	0.	0.0	44562.	0.	0.0	47493.	0.	0.0
Durable goods	à 81041.	10748.	13.263	85965.	11098.	12.910	92757.	12145.	13.093
Furniture	2461.	271.	12.000	2305.	284.	12.000	2584.	332.	12.833
Machinery, exc electrics	1344B.	1573.	11.700	14099.	1650.	11.700	16052.	1996.	12.433
/ Electrical machinery	12709.	6079.	50.200	12309.	6179.	50.200	12759.	6694.	52.467
	3250.	2587.	79.600	3447.	2744.	79.600	3606.	2875.	79.733
Instruments	2528.	238.	9.400	2576.	242.	9.400	2670.	248.	9.300
Misc manufacturing	47445.	436. 0.	0.0	51169.	0.	0.0	55086.	0.	0.0
Durable manufacturing nec			0.0	19943.	0.	0.0	21131.	Ů.	0.0
Transportation	19019.	0.0		9889.	9889.	100.000	10602.	10602.	100.000
Communication	9291.	9291.	100.000				10002.	0.	0.0
Electric, gas & sanitary services	9731.	0.	0.0	.10333.	0.	. 0.0		10546.	13.308
nolesale & retail trade	69817.	8922.	12.776	72961.	9332.	12.790	79248.		
inance, insurance Freal Friete	53591.	22260.	41.537	56101.	22949.	40.906	59172.	24010.	40.577
Banking	7507.	7569.	100.000	7976.	7976.	100.000	8415.	8415.	
Credit agencies	-1450.	-1456.	100.000	-1560.	-1560.	100.000	-1879.	-1879.	100.000
Security & commodity brokers	1276.	990.	77.600	1403.	1069.	77.600	1561.	1211.	17.600
Insurance carriers	5279.	5279.	100.000	5226.	5226	100.000	5464.	5464.	100.000
Insurance agents	. 10.	2310.	100.000	2444.	2444.	100.000	2727.	2727.	100.000
Real estate	36.492.	7047.	18.500	40292.	7454.	18.500	42732.	7920.	18.533
Holding companies	521.	521.	100.000	320.	320.	100.000	152.	152.	100.000
Services	50869.	23479.	10.156	54219.	25234.	46.524	59156.	28262.	. 47.776
Personal services	5007.	270.	5.400	5255.	284.	5.400	5656.	322.	5.700
Riscellaneous budiness services	6112.	4468.	73.100	6648.	4860.	73.100	7493.	5680.	75.800
Miscellaneous ropert services	1203.	250.	26.800	1304.	271.	20.800	1374.	275.	20.000
Motion pictures	a9v.	890.	100.000	916.	916.	100.000	1056:	1056.	100,000
Amusements & recreation	1833.	136.	7.400	1964.	145.	7.400	2104.	195.	9.267
Medical & health services	12265.	2973.	24.200	13150.	3195.	24.300	14604.	3797.	26.000
legal services	3243.	3243.	100.000	3528.	3528.	100.000	3034.	3834.	100.000
Education services	3010.	3010.	100.000	3321.	3321.	100.000	3681.	3681.	100.000
Nonprofit membership impar inthins	4924.	3939.	80.000	5 157.	4126.	80.000	5423.	4338.	-80.000
Miscellaneous professional servates	4,100.	4300.	100.000	4588.	4588.	100.000	5084:	5084.	100.00
Services, nec	8004.	0.	0.0	8408.	0.	0.0	8847.	0.	0.0
Government and government enterprises	00550.	25753.		64747.	27842.	43.001	70127.	30481.	43.466
Pederal	28115.	10178.	36.201	29565.	10920.	34,937	31680.	11791.	37.221
General government	24064.	7075,	29.400	25164.	7549.	30.030	27003.	8209.	30.400
Government enterprises	4051.	3103	76.600	4401.	3371.	76.600	4677.	3583.	76.600
State and local	32435.	15575.		35 182.	16921.	48.097	38447.	18690.	48.612
General government	30243.	15575.	51.500	32857.	16921.	51.500	35873.	18690.	52.100
Government enterprison	2192.	C.	0.0	2325	0.	0.0	2574.	0.	0.0
Rest of the world	3570.	0.	0.0	3678.	Õ.	0.0	4350.	. 0.	0.0
									•
Private Sector	399178.	86562.	21.685	419279.	91057.	21.710	449398.	99290.	22.09
All industries, TOTAL	455728.	112315.	24.431	484026.	118899.	- 24.565	519525.	129771.	24.979

		1965	,		1966			1967		_
	NAT.	INFOR-		NAT.	INFOR-		NAT.	INFOR-		
			%INFO	INCOME	MATION	*info	INCOME	MATION	*INFO	
INDUSTRY	INCOME	MATION					20694.	0.	0.0	
	20366.	. 0.	0.0	21866.	0. 0.	.0.0 0.0	6305.	0,	0.0	
Agriculture	. 60f3 .	0.	0.0	6229.	6008.	18.400	34105.	6412.	18.800	
Mining	25840.	5401.	18.100	32653.	26 189	14.883	193159.	29446.	15.245	
Construction	1703bl.	24101.	14.147	189399.	10630.	14.742	74526.	11005.	14.766	
Manufacturing	65410.		14.691	72106.	1502.	22.400	6820.	1528.	22.400	
Mondurable goods Paper & allied products	6005.	1291.	21.500	6706.	9128.	95.400	9934.	9477.	95.400	
Printing, publish sallied inds	8725.	8319.	95.350	9568.	0.	0.0	57772.	0.	.0.0	
Mondurable manufacturing, nec	50080.	0.	0.0	55832.	17559.	14.970	118633.	18442.	15.545	
	104945.	14491.	13.808	117293.	463.	14.500	3189.	462.	14.500	
Durable goods	2904.	397.	13.667	3190.		.13.900	21794.	3029.	13.900	
Purniture Machinery, exc electrical	18239.	2401.	13.167	21181.	2944.	57.000	18538.	10567.	57.000	•
Electrical machinery	14655.	8131.	54.733	17433.	9937.	80.000	5103.	4082	80.000	
	4128.	3297.	79.867	4908.	3926.	9.100	3307.	301.	9.100	
Instruments Misc manufacturing	2860.	265.	9.200	3178.	289.	0.0	66702.	0.	C.0 ·	
Durable manufacturing, nec	61939.	0.	. 0.0	67403.	0.	0.0	25 20 3.) D.	0.0	
Durable manufacturing,	23069.	0.	0.0	24800.	0.	100.000	13385.	13385.	100.000	,
Transportation	11497.	11497.	100.000	12707.	12707.,		12659.	0.	0.0	+ 1
Communication Electric, gasssanitary services	11442.	0.	0.0	12165.	0.	0.0 13.348	97643.	13054.	13.369	
Wholesale & retail trade	84662.	11261.	13.301	91335.	12 191.		74477.	31920.	42.859	
Finance, insurance Freal estate	63987.	26304.	41.108	69826.	29580.	42.363	10726.	10726.	100.000	
Banking	8943.	8943.	100.000	9774.	9774.	100.000	-2155.	-2155.	100.000	
Credit agencies	-1617.	-1617.	100.000	-1678.	-1678.	100.000	3131.	2430.	77.600	
Security & commodity brokers	1942.	1507.	77.600	2423.	1880.	77.600	7454.	7454.	100.000	
Insurance carriers	5480.	5860.	100.000	6913.	6913.	100.000	3295.	3295.	100.000	
Insurance agents	2957.	2957.	100.000	3193.	3193.	100.000	51420.	9564.	18.600	
Real estate	45741.	8493.	18.567	487.75	9072. 426.	18.600	606.	606.	100.000	
Holding companies	141.	141.	100.000 ′	426.	426.	100.000	79096.	38415.	49.567	•
Services	64142.	31279.	48.766	71391.	35 2 3 2 .	49.351	6924.	436.	6.300	
Personal services	5965.	358.	6.000	6536.	412.	6.300	10655.	8652.	81.200	
Miscellaneous business services	8399.	6593.	78.500	9561.	7764.	81.200	1744.	321.	18.400	
Miscellaneous repair services	1494.	287.	19.200	1696.	312.	18.400	1349.	1319.	100.000	
Motion pictures	1201.	1201.	100.000	1337.	1337.	100.000	2574.	335.	13.000	
Amusements & recreation	2201.	245.	11, 133	2432.	316.	13.000	20172.	4700.	23.300	
Medical & health services	15790.	3955.	25.300	17553.	4248.	24.200 100.000	5003.	5003.	100.000	
Legal services	4197.	4197.	100.000	4618.	4618.	100.000	5156.	5156.	100.000	
Education services	4145.	4145.	100.000	4631.	4631.	80.000	6499.	5199.	80.000	
Nonprofit membership organizations	5767.	4630.	80.000	6401.	5121.		7264.	7264.	100.000	
Miscellaneous professional services	5629.	5629.	100.000	6474.	6474.	100.000	11756.	0.	0.0	
Services, nec	9334.	. 0.,	0.0	10152.	0.	43.694	94250.	41303.	43.823	
Government and government enterprises	75374.	33059.	43.861	85036.	37156.		41493.	14904.	35.918	
Federal .	33303.	12352.	37.088	37921.	13643.	35.977	35612.	10399.	29.200	
General government	28298.	8518.	30.100	32431.		29.100	5881.	4505.	76.600	
Government enterprises	5005.	3834.		5490.	4205.	76.600	52757.	26395.	50.040	
State and local	42071.	20708.	49.221	47115.	23513.	49.906	49530.	26399.	53.300	
General government	39294.	20708.	52.700	44115.	23513.	53.300	3227.	0.	0.0	
Government enterprises	2777.	0.	0.0	3000.	0.	0.0	4561.	Ö.	0.0	
Rest of the world	46 8 1.	,0•	0.0	4194.	0.	0.0	47010	**		
					. '		•			
		•			•		,,,,,,	422632	23.627	
Private Sector	490060.	109843.	22.414	536565.	123908.	23.093	561367.	132632.	23.02/	
		•								
All industries, TOTAL	565434.	142903.	25.273	621601.	161064.	25.911	655617.	173935.	26.530	
MIT Intractical ratus	4451416									

	. 1	1968		1	1969	\ .	19	70	,
	NAT.	INFOR-		NAT.	INFOR-	. 	NAT.	INFOR-	ı
INDUSTRY	INCOME	MATION	%INFO	INCOME	MATION	*INFO	INCOME	MATION	*INFO
3,1000	21303.	0.	0.0	24066.	0.	0.0	24455.	0.	0.0 0.0
Agriculture	6785.	0.	0.0	6978.	0.	0.0	7810.	0.	
tining	37289.	7234.	19.400	41952.	8558.	20.400	43021.	B326.	19.000
Construction	210811.	31695.	15.035	221353.	39076.	15.394	215388.	33421.	15.51
Manufacturing	B1286.	11885.	14.621	85525.	12882.	15.062	88088.	12938.	14.68
Nondurable goods	7460.	1619.	21.633	8132.	1697.	20.867	7968.	1602.	20.10
Paper & allied products	10760.	10265.	95.400	11724.	11185.	95.400	11883.	11336.	95.40
Printing, publish fallied inds	63040.	0.	0.0	65669.	0.	0.0	68237.	0,	0.0
Mondurable manufacturing, nec	129525.	19811.	15.295	135828.	21 194.	15.604	127300.	20483.	16.09
Durable goods		490.	14.000	3912.	528.	13,500	3715.	483.	13.00
Purniture	3497.		14.950	24559	3929.	16.000	24353.	3896.	16,00
Machinery, exc electrical	22862.	3418.	56.400.	20753.	11580.	55.800	20132.	11234.	55.80
Electrical machinery	19694.	11107.		6159.	4816.	78.200	5797.	4533.	78.20
Instruments	5653.	4472.	79.100		340.	9.033	3740.	337.	9.00
Misc manufacturing	3579.	324.	9.067	3767.	0,	0.0	69563.	0.	0.0
Durable manufacturing, nec	74240.	0.	0.0	76678.		0.0	30308.	Ö.	0.0
Milable maintacear and the	27005.	G,	0.0	20797.	0.		17600.	17600.	100.0
Transportation-	14563.	14563.	100.000	16344.	16344.	100.000	14864.	.0.	0.0
Communication Electric,gasisanitary services	13548.	0.	0.0	14371.	0.	0.0		16252.	13.2
Mholesale & retail trade	100083.	14149.	13.238	115618.	15767.	13.637	122213.		45.1
NNOISSAIS & ISTALL LANGE	81124.	35436.	43.681	86738.,	38218.	44.061	92625.	41791.	
Finance, insurance Freal estate	12269.	12269.	100.000	15039.	15039.	100.000	16448.	: 16448.	100.0
Banking	-2183.	-2183.	100.000	-2880.	-2830.	100.000	-1981.	- 1981.	100.0
Credit agencies	4092.	3175.	77.600	3461.	2686.	77.600	2733.	2121.	77.6
Security & commodity brokers	7735.	7735.	100.000	7960.	7960.	100.000	9269.	9269.	100.0
Insurance carriers	Jo08.	7508.	100.000	3847.	3847.	100.000	4223.	- 4223.	100.0
Insurance agents	55036.	10264.	18.650	58727.	10982.	18.700	61812.	11590.	18.7
Real estate		567.	106.000	584.	584.	100.000	121.	121.	100.0
Holding companies	567.	41785.	40.330	95650.	46368.	48.477	103304.	49851.	48.2
Services	80457.		6.100	7380.	435.	5.900	7436.	424.	5.7
Personal services:	7,46.	442.		13128.	10063.	76.650	14051.	10450.	74.3
Miscellaneous business services	11567.	9145.	78.925	2115.	391.	18.500	2149.	399.	°18.5
Miscellaneous repair services	1884.	348.	18.450	1473.	1473.	100.000	1581.	1581.	. 100.0
Motion pictures	1514	1514.	100,000		325.	11.000	3321.	332.	10.0
Ammgements & recreation	2876.	345.	12.000	2959.	5730	21.900	29472	6484.	22.0
Medical & health services	22050.	5027.	22.000	26166.		100.000	6691.	6691.	110.0
Legal services	5296.	5296.	100.000	5829.	5829	400.000	6688.	6688.	100.0
Education services	5077.	. 5077.	100.000	6249.	6249.	100.000	8912.	7130.	80.0
Monprofit membership organizations	7040.	6117.		8590.	6872.	80.000	9673 .	9673.	100.0
Miscellaneous professional services	7874.	7874.	100.000	9000.	9000.	100.000		0.	0.0
Services, nec	12007.	0.	0.0	12761.	0.	0.0	13330.	58920.	46.2
Government and government enterprises	105211.	46515.	44.211	114740.	51718.	45.074	127421.		40.2
Tederal	45826.	10005.		48924.	18456.	37.724	53093.	21349. 14937.	33.1
General government	39273.			41801.	13000.	31.100	44723.		76.
Covernment enterprises	6553.	5020.		7123.		76.600	8370.	6411.	
State and local	59185.	29910.		65816.	33261.	50.537	7432B.	37571.	50.
General government	55906.	29910.		61939.	33261.	53.700	69964.	37571.	53.
Covernment enterprises .	3479.	0.		3877	0.	0.0	4364.	0.	0.
Challi site currant	4753.	ů.		4464.	0.	0.0	4616.	0.	٥.
Rest of the world			***		4 4				
	. *		* .				/49AAh	167588	24.
Privata Sector	610521.	144861.	23.727	656331.	159330.	24.276	677004.	167240.	49.
		•.		•			ھە رلىقىم	Anesta	90
All industries, TOTAL	7 15732.	191376.	26.738	771071.	111048.	27.371	804425.	. 226160.	28.

NATIONAL INCOME OF THE PRIMARY INFORMATION SECTOR BY INDUSTRY, 1929-1974 (\$ Millions Current)

		1971 ·			1972		19	373	· · · · · ·
	NAT.	INFOR-		NAT.	INFOR-	هجوران المحكومة	NAT.	INFOR-	,
INDUSTRY	INCOME	MATION	%INFO	INCOME	MATION	\$INFO	INCOME	MATION	*INFO
			0.0	30649.	0.	0.0	47756.	0.	0.0
Agriculture	25682.	0. 0.	0.0	8700.	0.		10395.	0.	0.0
Kining	7425.		18.400	52277.	9044.	17.300	58327.	9682.	16.600
Construction	47771.	8790.	14.949	251811.	37612.	14.937	281589.	42015.	14.921
Manufacturing	224704.	33591.		97943.	14782.	15.093	106615.	16130.	15.129
Nondurable goods	91505.	13564.	14824		1875.	19.900	11020.	2171.	19.700
Paper & allied products	8337.	1676.	20.100	9421.	12908.	95.400	14632.	13959.	95.400
Printing, publish sallied inds	12462.	11889.	95.400	13530.	12700. Q.	0.0	80963.0	0.	0.0
Nondurable manufacturing.nec	70706.	J.	0.0	74992.	22830.	14.837	174974.	25865.	14.794
Durable goods	133199.	20027.	15.035	153868.	22030. 577.	12.750	4872.	609.	12.500
Furniture	.820 د	457.	13.000	4526.		14.800	31867.	4716.	14.800
Machinery, exc electrical	23552.	3439.	14.60G	27294.	4040.			14517.	55.000
Electrical machinery	20631.	11285.	54.700	23353.	12809.	54.850	26394.		78.000
=	5800.	4443.	76.030	6457.	4991.	77.300	7 186.	5605.	9.000
Instruments Misc manufacturing	4038.	363.	9.000	4586.	413.	9.000	4867.	438.	
	75358.	Q.	0.0	87652.	0. ,	0.0	99788.	0.	0.0
Durable manufacturing, nec	32964.	0.	0.0	36453.	0.	0.0	4 1565.	0.	0.0
Transportation	16343.	18343.	100.000	20311.	20311.	100.000	21849.	21849.	100:000
Communication	10271.	0.	0.0	17589.	0	0.0	18773.	0.	0.0
Electric, gas & sanitary services Wholesale & retail trade	132066.	17833.	13.422	144606.	19761.	13.665	162599•	22273.	13.698
Wholesale a retail trade Finance, insurance areal estate	103113.	46034.	44.645	112493.	49504.	44.006	121170.	52799.	43.575
	15960.	15960.	100.000	17074.	17074.	100.000	20431.	20431.	100.000
Banking	-2269.	-2269.	100.000	-3381.	-3381.	100.000	-4580.	-4580.	100.000
Credit agencies	4107.	3187.	77.600	4348.	3374.	77.600	3173.	2462.	77.100
Security & commodity brokers	11253.	11253.	100.000	12507.	12507.	100.000	12941.	12941.	100.000
Insurance carriers	4744.	4744.	160.000	5217.	5217.	100.000	5677.	5677.	100.000
Insurance agents	69161.	13002.	18.800	76373.	14358.	18.800	03325.	15665.	18.800
Real estate	. 157.	157.	100.000	355.	355.	100.000	203.	203.	100.000
Holding Companies	111/20.	53358.	48.011	122344.	58870.	48.118	136891.	66930.	48.899
Services	7344.	404.	5.500	7471.	411.	5.500	7754.	434.	5.600
Personal Services			72.100	16551.	11933.	72.100	19410.	14558.	75.000
Miscellaneous business services	14729.	10620. 431.	18.600	2557.	476.	18.600	2879.	538.	18.700
- Miscellaneous repair services	2316.	1560.	100.000	1576.	1576.	100.000	1714.	17142	100.000
Motion pictures	1560.		9.000	3745.	337.	9.000	4378.	394	•9.000
Amusements & recreation	3485.	314.		36586	7756.	21.200	40825	8532.	20.900
Medical & health services	32569.	7133.	21.900		8398.	100.000	9593.	1*	100.000
Legal mervices	7522.	7522.	100.000	3398.	,8010.	100.000	8992.	8992.	100.000
Education services	7143.	7143.	100.000	8010.	8517.	80.000	11357.	9086.	80.000
Monprofit membership organizations	10017.	8014.	8C.000	10646.	11456.	100.000	13097.	13097.	100.000
Miscellaneous professional services	10259.	10259.	100.000	11456.		0.0	16892.	Ç.	0.0
· Services, nec	14276.	0.	0.0	15340.	0. 71:02	46.687	165791.	77749.	46.896
Government and government enterprises	* 139047 .	64774.	46.585	152485.	71192.			25169.	40.324
Pederal	55654.	2252j.	40.469	59724.	24073.	40.306	51931.	17137.	33.000
General government	40763.	15712.	33.600	50060.	16670.	33.300	10485.	8032.	76.600
Government enterprises	6691.	6811.	76.600	9664.	7403.	76.600		5258U.	50.864
State and local	63393.	42252.	50.666	92765.	47119.	50.794	103375. 97191.	52580.	54.100
General government	78480,	42252.	53.833	` 87312.	47119.	53.967		0.	
Government enterprises	4907	0.	0.0	5453.	. 0.	0.0	6184.	0.	0.0
Rest of the world	6014.	. 0.	0.0	7049.	0.	0.0	9043.	٧.	V.V
•								h	33 600
Private Sector	126973.	177989.	24.484	804282.	195101.	. 24.258	909957.	215556.	23.689
					ı'			•	•
All industries, TOTAL	866/20.	242763.	28.032	956771.	266293.	27.832	1075748.	293305.	27.265

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A constant of the second of th		1974	
	NAT.	INFOR-	
INDUSTRY	INCOME	MATION	%INFO -
	43772.	0.	0.0
Agriculture	lJodo.	0.	. 0.0
Mining	61051.	10562,	17.300
Construction	294232.	42342.	
Manufacturing		16273.	
Nondurable goods	118975.		
Paper 5 allied products	10691.	2106.	
Printing, publish fallied inds	14850.	14167.	95.400
Nondurable manufacturing, nec	93434.	· 0.	0.0
Durable goods	175257	26069	14.875
Furniture	4990.	624.	12.500
Machinery, exc electrical	ф — 33124.	4969.	15.000
Electrical machinery	20195.	14407.	55.000
	7227.	5637.	78.000
Instructuts	4802.	1.12.	9.000
Misc manufacturing	98919.	0.	0.0
. Durable manufacturing, nec	45140,	0.	0.0
Transportation		23754.	100.009
Communication	23754		
Electric, gassanitary services	19987.	0.	0.0,
Mholesale & retail trade	178525.		12.384
Finance, insurance real estate	158590 <u>. </u>	79646.	50.221
Banking	23936.	23936.	106.000
Credit agencies	-4422.	-44 22.	
Security & commodity brokers	31390.	24359	77.600
Insurance carriers	13569.	: 13569.	100.000
Insurance agents	6336.	6336.	100.000
Real estate	88562.	16650.	18.800
Holding companies	-781.	-781.	
Services	152703.	74617.	
Personal services	8162.	457.	52600
Miscellaneous business services	21389.	16042.	75.000
Miscellaneous repair services	3178.	594.	18.700
Miscaligueous reborn services	1969.	1969.	
Motion pictures	4762.	429.	9.000
Amusements & recreation.	46842.	9743.	
Medical & health services		10845.	
Degal mervices	10845.		100.000
Education services	10073.	10073.	
Monprofit membership organizations	12228	5782.	80.000
Miscellaneous professional services	1 14663.	14683.	100.000
Services, nec	18572.	. 0.	0.0
Covernment and government enterprises	\ 17√96√.	84841.	
Pederal	to456.	27060.	40.719
General government	\ 54690.	18048.	
Government enterprises	11766.	9013:	76.600
State and local	113513.	57580.	50.726
General government	106433.	57580.	54.100
Government enterprises	7080.	0.	0.0
Rest of the world	14403.	٥.	. G.O
	14449	۲.	
8		.5	
	÷	Q	
Private Sector	1005783	253029.	25,158
AITANCE DACCOL	1005743.	7320731	474 658
		· '	,
		*· · ·	. •
and the same	· · · · · · · · · · · · · · · · · · ·		
All industries, TOTAL	1185712.	337670.	28.4.

TABLE 14: TWO SECTOR AGGREGATION OF THE U.S. LABOR FORCE

YEAR WORKERS WORKERS WORKERS LABOR FO. 1860 580,040 7,706,243 372,883 7,913,400 8,286,21 1870 788,837 11,732,379 500,849 12,020,367 12,521,2 1880 1,340,292 16,066,092 887,726 16,518,658 17,406,31 1890 2,980,778 19,773,254 2,480,189 20,273,843 22,754,0 1900 4,286,395 24,872,754 3,120,029 26,039,120 29,159,1 1910 7,283,391 32,516,561 4,537,196 35,262,756 39,799,9		EXPERIENC	ED CIVILIAN WORK FORCE	<u>, , , , , , , , , , , , , , , , , , , </u>
1860 580,040 7,706,243 1870 788,837 11,732,379 1880 1,340,292 16,066,092 1890 2,980,778 19,773,254 1900 4,286,395 24,872,754 1910 7,283,391 32,516,561 4,537,196 35,262,756 39,799,9	YEAR	NON- INFORMATION INFORMATION	NON- INFORMATION INFORMATION	TOTAL U.S. LABOR FORCE
1920 9,963,456 35,324,982 6,023,362 39,265,076 43,260,4 1930 16,031,889 35,025,090 8,883,914 42,173,065 51,056,9 1940 16,470,313 37,112,067 9,883,428 43,698,952 53,582,3 1950 21,691,532 36,152,555 13,940,424 43,903,663 57,844,0 1960 30,851,510 36,954,008 19,256,767 48,548,751 67,805,5 1960 30,851,510 36,954,008 19,256,767 48,548,751 67,805,5	1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970	788,837 11,732,379 1,340,292 16,066,092 2,980,778 19,773,254 4,286,395 24,872,754 7,283,391 32,516,561 9,963,456 35,324,982 16,031,889 35,025,090 16,470,313 37,112,067 21,691,532 36,152,555 30,851,510 36,954,008 40,529,588 39,541,542	500,849 12,020,367 887,726 16,518,658 2,480,189 20,273,843 3,120,029 26,039,120 4,537,196 35,262,756 6,023,362 39,265,076 8,883,914 42,173,065 9,883,428 43,698,952 13,940,424 43,903,663 19,256,767 48,548,751 29,484,497 50,606,633	8,286,283 12,521,216 17,406,384 22,754,032 29,159,149 39,799,952 45,288,438 51,056,979 53,582,380 57,844,087 67,805,518 80,071,130 95,816,999

	· · · · · · · · · · · · · · · · · · ·	(BY API	RCENT)	پاکانچاروسا، «نسپیرسی	
1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 ^a	7.0 6.3 7.7 13.1 14.7 18.3 22.0 31.4 30.7 37.5 45.5 50.6 51.3	93.0 93.7 92.3 86.9 85.3 81.7 78.0 68.6 69.3 62.5 54.5 49.4 48.7	4.5 4.0 5.1 10.9 10.7 11.4 13.3 17.4 18.4 24.1 28.4 36.8 41.7	95.5 96.0 94.9 89.1 89.3 88.6 86.7 82.6 81.6 75.9 71.6 63.2 58.3	100 100 100 100 100 100 100 100 100 100

aBLS projection.

TABLE 15:

FOUR SECTOR AGGREGATION OF THE U.S. LABOR FORCE (MEDIAN DEFINITION)

EXPERIENCED CIVILIAN WORK FORCE

•		ENT DIVIDIOL D				_
\ YEAR	INFORMATION SECTOR	AGRICULTURE SECTOR	INDUSTRY SECTOR	SERVICE SECTOR	TOTAL	
1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970	430,604 601,018 1,131,415 2,821,500 3,732,371 5,930,193 8,016,054 12,508,959 13,337,958 17,815,978 28,478,317 37,167,513 44,650,721	3,364,230 5,884,971 7,606,590 8,464,500 10,2,3,179 12,377,785 14,718,742 10,415,623 8,233,624 6,883,446 4,068,511 2,466,883 2,012,157	3,065,924 4,006,789 4,386,409 6,393,883 7,814,652 14,447,382 14,492,300 18,023,113 10,928,113 10,928,23 22,154 385 23,59%,354 22,925,600 21,558,8%	1,375,525 2,028,438 4,281,970 5,074,149 7,318,947 7,044,592 8,061,342 10,109,284 12,082,378 10,990,378 11,661,326 17,511,639	8,286,283 12,521,216 17,406,384 22,754,032 29,159,149 39,799,952 45,288,438 51,056,979 53,582,380 57,844,087 67,805,518 80,071,130 95,816,999	

	1 (5)	BY PERCEN	T)	on the state of th	k u r o la
1860	5.8	46.5	37.0	16.6	1.00
1870	4.8	4	32.0	16.2.	100
1880	6.5	43.7	25.2	24.5	100
1890	12.4	37,2	28.1	22.3	100
1900	12.8	31.3	26.8	25.1	100
1910	14.9	31.1	36.3	17.7	10 ເ
1920	17.7	32.5	32.0	17.8	100
1930	24.5	20.4	35.3	19.8	100
1940	24.9	15.	37.2	22.5	100
1950	30.8	11.9	38.3	19:0	100
1960	42.0	6.0	34.8	17.2	100
1970	46.4	3.1	28.6	21.9	100
1980 ^a	46.6	2.1	22.5	28.8	100
1500	10.0	2.1			

aBLS projection.



APPENDIX SIX

This report contains the following backup information to Chapter 6 of Volume I:

- (i) A detailed explanation of the results of an Input-Output experiment which reduced defense spending by 10% and increased personal consumption expenditures by an equal dollar amount (see Tables 16 through 23).
- (ii) A table of the final demand components for a second experiment (see Tabl 24).

DETAILED RESULTS OF EXPERIMENT I

One reason for performing this experiment is to show the rich amount of detail that can be gleaned from the I-O matrix. In this section, a variety of reports are presented on both output and employment impacts. Remember that the 108-order matrix used here is itself a summary of the more complex underlying 507-order matrix. Hence, a user could take a microscopic look at the interactions within a subset of the economy, or pull back and take a very general look at structural relationships between the major sectors.

Table 16 shows the ten final demand components of the control (actual) 1967 economy. The experimental economy final demand is shown in Table 17, the essential changes being:
(i) a reduction of \$14,250 million in defense purchases, and (ii) a corresponding pro rata increase in all personal consumption expenditures. Note that the final demand vector which is multiplied through the inverse does not include the scrap industry (83), government wages (84), rest or world industry (85), household industry (86), and inventory valuation adjustment (87). Also, lefent purchased \$27,126 million in wages, and this amount is not reflected in the "total" column of Tables 16 and 17.

Each final demand component generates output in the private economy. Table 18 shows the total output "created" by each cell of the 108 by 11 final demand matrix. For example, personal consumption expenditures of radio, television, and communication equipment (Industry 56*) accounted directly and indirectly for \$16,218 million output on final demand purchases of \$12,792 million.

The direct and indirect impacts of final demand can be further decomposed, and Tables 19 and 20 show those data. Using Industry 56* as the example again, the \$16,218 of total output is the sum of direct requirements (i.e., demand for Industry 56* output by consumers and by firms within the industry) and indirect requirements (i.e., purchases by other industries in satisfying the final demand for Industry 56*).

The direct outputs were \$13,770, and the indirect outputs were \$2,448. This particular industry was fairly self-contained, in that over 85% of its total output was generated completely within the industry. Other industries are structurally deeper in the economy. For example, only 5% of the primary iron and stee. industry (I-O #37) output is generated by direct final demand. Rather, almost all of its demand is generated by intermediate purchases -- hence it is a "deep" sector. We shall pursue the question of structural depth in more detail later.

Since we are performing an experiment, comparing a "new" economy with a control economy, a report of net changes induced by the hypothetical policy is in order. Table 21 shows the total net effect of the policy. The total impact on the economy was a hefty \$8,564 million gain in output -the economy did very well indeed in switching from defense to personal consumption expenditures. The total net impact on the noninformation industries was a gain of \$7,294 million; the information industries gained \$1,267 million in net output. Some industries, as might be expected, suffered severe recessions. For example, the ordnance industry lost 14% of its total output, and the aircraft industry lost 10%. For discrete industries, these losses are traumatic. And for regions that are highly specialized in defense contracting, a 14% national loss in industry could reflect a 30% loss for a particular country's employment -- something that is catastrophic in the short run. Table 21 shows that the trade industry (69) fared quite well, absorbing \$2.8 billion in margins on increased consumption of noninformation goods. Retail and wholesale establishments that trade in information goods (69*) also did very well, scoring a \$383 million gain in output. People bought food (14), rented houses and apartments (71) and took out loans and insurance (70). The big noninformation industry losers were ordnance (13), and aircraft (60). And the big loser in the information sector was the radio, television, and communication equipment industry. Even though consumers bought new televisions and radio sets with their windfall income, it did not begin to compensate the huge loss in avionics gear cut out of the defense budget. Firms that diversified in both consumer and military electronics had a fair chance of surviving. Firms that were completely specialized in military communications were badly hurt.

The total net impacts can again be decomposed into direct and indirect effects. Tables 22 and 23 show those data broken down by final demand sector. All final demand sectors other than personal consumption and defense show a net impact of zero, as may be expected since they were untouched by the policy experiment.

DETAILED RESULTS OF EXPERIMENT II

To conserve space, none of the detailed results of Experiment II are shown. Available are the total, direct and indirect impacts on output and labor broken down by industry.

Table 24 shows the experimental final demand.



15	MTI	LIONS,	1967
1 43	LITT	TITORIO V	#/V1

					i			S&L	S&L		•
INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	EDUC	HWS	S&LS	S&LP
NFORMATION INDUSTRIES			9	•		1	,			,	
	12181.	0.	5674.	o.	15.	94.	225.	5430. ·	0.	266.	477.
*) Info buildings: office, education, comm.	1424.	0.	0.	0.	0.	0.	186.	764.	150.	71.	252.
*) Maintenance & repair on info buildings	943.	Ö.	649.	20.	11.	12.	32.	161.	4.	1.	54.
) Office furniture & equipment () Paper: printing (exc boxes)	366.	50.	0.	107.	82∙	15.	21.	40.	16.	3. `	29. 105.
(*) Printing & publishing	5599.	4072.	. 0.	274.	244.	144.	32.	715.	11.	3. 0.	0.
*) Ink	17.	0.	0.	, S.	10.	C.	1.	1.	¢. 0.	0.	0.
*) Printing & paper machinery	785	0.	613.	35.	114.	ال . 14.2	9. 291.	119.	10.	i.	31.
*) Computers, calculators, office equip.	5023.	112.	3352.	155.	710. 166.	242. 208.	50.	2,	0.	1.	9.
*) Electronic measuring instruments	1006.	0.	629. 2937.	20. 600.	580.	· 5179.	657.	93.	1.	14.	11.
*) Radio, TV, comm'n equipment	13721.	3646. 171.	18.	139.	372.	617.	103.	. 4,	0.	0.	1.
*) Electronic components	1435.	0.	133.	7.	29.	9.	2.	2.	12.	0.	0.
*) Misc electronic instruments '	195. 2201.	. 415.	615.	78.	461.	479.	83.	17.	34.	4.	15.
*) Mech measuring & control instruments	2579.	713.	920.	78.	313.	340.	70.	65.	56.	4,	18.
*) Photographic & related equipment	516.	204.	241.	18.	35.	1.	- 1.	23.	0.	-8.	1.
*) Advertising signs & displays	10091	7837	1096.	0.	140.	405.	138.	136.	. 44.	43.	253.
*) Telecommunications, exc. radio & TV	7.	0.	0.	0.	0.	٥.	0.	7.	0.	0.	0.
*) Radio, TV, CATV	15553.	13531.	1014.	101.	516.	230.	50.	25.	41.	12.	31.
*) Trade margin on info goods	25113.	24596.	١.	-1.	90.	17.	16.	172.	39.	7.	151.
*) Finance & insurance: components		7842.	· 778.	ρ.	214.	48.	60.	62.	40.	9.	118.
Real estate: fees, royalties, office rentals	1112	1105.	ð.	0.	. 0.	1.	-0.	2.	3.	1. 66.	: 1. 300-
*) Repair: radio & TV equipment	7471.	4142.	0.	0.	408.	1254.	566.	. 430.	286.	7.	34V-
*) Misc business info services	2154.	1744.	0.	-57.	322.	109.	.5.	24.	111	32.	41.
*) Motion pictures *) Medical, educational, nonprofit	23027.	20629.	0.	ŋ.	0.	901.	1000.	101.	: 323. 65.	9.	101.
*) Postal service	1499.	1053.	0.	0.	14-	187.	46.	23.	30.	14.	107.
*) Office Supplies	470.	0.	Q	0.	0.	99.	77.	143.	30.	171	1071
•		•	•	,		. * *	,	4			
ON-INFORMATION INDUSTRIES		:		,		•	. 2		,	4	
1) Livestock & products	2018.	1811.	٥.	129.	55.	, 5.	4.	1.	10,	1.	2.
2) Other agricultural products	6849.	3756.	0.	1031.	3184.	7.	-1202.	16.	9.	١.	43.
3) Forestry and fishery products	249.	449.	, 0.	2.	47.	. 5.	-259.	1,	2.	1.	1. 5.
4) Agr., Forest, Fish Services,	184.	136.	. 0.	0.	14.	10.	1.	16.	. 1.	1.	J. Q.
[5] Iron & ferroalloy ores mining	82.	0.	0.	· 25.	122.	-65.	-0.	0.	0.	0.	0.
6) Nonferrous metal ores mining	173.	0.	0.	12.	z 35.	58.	67.	0.	, 0.	1.	4.
7) Coal mining	618.	121.	0.	. 125-	306.	36.	7.	15.	1.	0.	. 0.
8) Crude petroleum and natural gas	339.	,0.	0. 1	257.	32.	. 0.	0.		0.	0.	-46.
9) Stone & clay mining & quarrying	51.	. 4.	0.	12.	83.	-1.	-1.	(0.	. 0.	31.
(0) Chemical & fertilizer mineral min.	189.	2.	0.	/ 8.	148.	-0.	0.	0.	1708.	0	13434.
1) New construction, Net	67700.	O.	48664.	₽.	0.	861.	2275.	746.	_	0.	2997.
2) Maintenance & repair construction	4271.	0.	0.	0.	0.	978.	294.	7.	0. 0.	Ÿ.	0.
3) Ordnance and accessories	9075.	322.	25.	147.	309.	6432.	1834.	0.	273.	73.	63.
14) Food & kindred products	64911.	60974.	0.	899.	1906.	206.	448.	69.	0.	-1.	0.
[5] Tobacco manufactures	6059.	5270.	0.	189.	601.	0.	0.	0.	17.	í.	1.
16) Fabrics, yarn & thread mills	1058.	592.	0.	114.	250.	73.	1.,	9. 0.	0.	-1.	Ö.
17) Misc. textile goods & floor cover.	1710.	1405.	89.	107.	89.	14.	- 6. 31.	2.	, 11.	28.	9 2.
19) Apparel	16867.	16246.	0.	281-	169-	96.		5.	12.	-5;	5.
19) Misc. fabricated textile products	2459.	1983.	0.	. 49.	74.	323.	13.	3.	O.	0.	0.
20) Lumber, wood prod. exc. containers	787-	258.	7.	121.	367.	22.	· 8.	J. O.	ű.	č.	0.
21) Wooden containers	30.	. 0.	0.	2.	3.	21.	3. 20	21.	2.	2.	3.
22) Household furniture	4183.	3861.	164.	49.	. 24.	26.	. 30.	73.	2.	-2.	4.
23) Other furniture, fixtures, Net	1308.	174.	983.	20.	8.	28.	18.	73. 53.	13.	7.	16.
24) Paper, allied prod. exc containers, Net	2308.	1451. 73.	0.	122. 39.	567. 24.	47 - 29.	31. 5.	12.	6.,	2.	1.
25) Paperboard containers, boxes			0.								

							ı	S&L	S&L		
INDUSTRIES	TFD	PCE	GCF.	IŅV	EXP	DEF	FGP	EDUC	HWS	S&LS	S&LP
Printing & publishing, Net	161.	47.	0.	23.	8.	36.	17.	5.	2. 31.	1. 2.	22. 65.
) Chemicals, select Chem.products, Net	4367.	504.5	0.	300.	1700.	1286	464.	13., 0.	· Q.	ō.	Q.
) Plastics, synthetic materials	779.	10.	. 0.	26.	670.	65.	0.		359.	5.	19.
Drugs, Cleaning, Toilet preparations	8669.	7293.	0.	221.	135.	121.	71. 1.	145. 1.	2.	-2.	1.
) Paints & allied products	160.	52.	0.	54.	47.	3. 939.	1397	146.	34.	33.	79.
) Petroleum refining & related ind's	12870.	10194.	0.	541.	765.	354.	37.	44.	41.	44.	43.
Rubber & misc plastics products	3328.	2269.	30.	142.	. 323.	5.	2.	0.	Q.	0.	0.
) Leather tanning, ind. leather prods.	43.	0.	0,	-6.	43.	14.	2.	0.	i.	2.	Ů.
Footwear & other leather products	3718.	3659.	0	21.	20.	10.	8.	22.	29.	2.	. 0.
) Glass & glass products	573.	317.	0.	39.	145.		4.	9.	Ž.	1.5	Q.
1 Stone & clay products	580.	244.	0.	127.	177.	23.	4.	O.	0.	2,	0.
n Primary iron & steel manufacturing	1328.	3.	0.	514.	518.	286.	-34.	· 0.	0.	0.	Ö.
) Primary nonferrous metal manufacturing	1118.	15.	34,	336.	726.	42.	-34.	. 0	, 0.	Ö.	ů.
) Metal-containers	99.	0.	11.	61.	16.	13. 179.	43.	0.	ů.	ů.	ů.
) Heating, plumbing & struc metal prods.	1632.	66.	933.	128.	284.		31.	23.	2.	-14.	1.
) Stamping, screw mach. prods & bolts	886.	374.	0.	86.	274.	100.		27.	i,	-3.	5.
Other fabricated metal products	2039.	774.	337.	198•	434.	226.	37. 49.	0.	Õ.	0.	9.
) Engines and turbines	1752.	144.	735.	55.	393. 419.	366. 25.	3.	9.	2.	š.	15.
) Farm machinery & equipment	3060.	30.	2942	409.		295.	13.	0.	11.	Õ.	46.
) Const., mining & oil field machs.	4120.	0.	2428.	58.	1270.		17.	1.	0.	Ů.	0.
Materials handling mach & equipment	1376.	٠0.	1108.	36.	132.	82.	36.	14.	٧.	ö.	i.
7) Metalworking mach & equipment	4376.	87.	3461.	167.	486.	116.	30. 5.	5.		ů.	Ö.
) Spec ind mach & equipment, Net	3300.	22.	2592.	56.	677.	24.	60.	0.	Q.	5.	Ž,
) General ind mach & equipment	2956.	0.	1888.	125.	627.	242.		108.	14.	ő.	2.
)) Machine shop products	336.	F #•	5.	32.	63.	98.	₿.	0.	0.	o.	0.
) Office comp & accounting machines	0.	0.	0.	-0.	0.	0	0.	105.	14.	2.	3.
2) Service industry machines	2847.	404.	1729.	126.	359.`	96.	7.	16.	2.	0.	39.
3) Elec ind equip & apparatus, Net	3387.	28.	2257.	.113.	391.	471.	69.		ý.	2.	. 0.
4) Household appliances	3956.	3530.	127.	103.	149.	11.	. 3.	13. 55.	2.	3.	i.
5) Electric lighting & wiring equip.	965.	557.	66.	57.	169.	35.	13.		0.	Ö.	0.
6) Radio, television & comm. equip	0.	,0.	0.	0.	0.	. 0.	. 0.	0. 0	0.	. 0.	0.
7) Electronic components & accuss.	0.	. 0.	0.	0,	0.	0.	\ 0.	0.	1.	ÿ.	6.
B) Misc,elec machinery, Net	1086.	626.	76.	28.	132.	187.	25.	2.	27.	87.	435
9) Motor vehicles & equipment	28276.	15822•	9054.	-310.	1976.	847.	155.	182.	0.	2.	,0
)) Aircraft and parts	14794.	50.	2367.	1918.	1809.	7840.	809.	0.		10	
1) Other transportation equipment	6475.	1078.	3430.	196.	206.	1327.	220	0.	Q.	2.	1
2) Scientific & controlling instru.	1082.	185.	517.	31.	107.	107.	50.	7.	73.		0
3) Optical, ophthalmicsphoto equip, Net	347.	317.	0.	0.		15.	4.	0.	2.	0. 	32
4) Misc manufacturing, Net	5175.	4213.	291.	130.	297.	57.	38.	118.	3.	:-6. 39.	201
5) Transportation & warehousing	20653.	11396.	829.	228.	3891.	2996.	328.	632.	113,	. N.	0
6) Comm. exc radiosTV broadcasting	0.	0.	Q.	0.	0.	0.	0.	0.	0.	٧.	. 0
7) Radio & TV broadcasting	0.	0.	0.	0.	0.	0.	0.	. 0.	0. nc	.0. 56.	393
8) Electric, gas, water & sanitary svcs	15952.	13935.	0.	0.	74.	295.	49.	10:1.	96.	47.	127
9) Wholesale & retail trade, Net	105261.	95836.	5530.	407.	2098.	911.	205.	-113.	213.		34
0) Finance & insurance, Net	705.	672.	0.	· 0.	0.	· 0.	0.	0.	0.	0.	200
U) Finding a Hisurance, wer	65285.	63027.	1322	0.	363.	81.	103.	106.	68.	16.	
1) Real estate & rental, Net	15053.	14367.	0.	0.	; 3.	510.	105.	-161.	62.	23.	144
2) Notels:personal&rep svcs exc auto,Net	1817.	448.	0	0.	49. 1	612.	238.	201.	84.	30.	155
3) Business services, Net	0.	0.	Q.	0.	0.	0.	0.	0	. 0.	0.	(0
4) (Research and Development)	8285.	8069.	. 0.	0.	0.	55.	9.	43.	20.	23.	68
5) Automobile repair & services	3903.	3827.	0.	0.	· 9.	87.	-13.	-0.	0.	0.	-8
6) Amusements, Net	22792.	20482.	0.	0.	0.	184.	141.	37.	1913.	В.	26
7) Medical, educ svesinon-profit org, Net	342.	170.	٠ 0.	0.	92.	30.	10.	4.	11.	1.	16
(8) Pederal govt enterprises, Net	1233.	925.	. 0.	0.	0.	6.	280.	13.	.1.,	q,	4
9) State & local govt enterprises	-26396.	9870.	658.	-100.	-40791.	2877-	1087.	0.	7 1.	; 0.	2
BO) Imports	0.	0.	0.	٥.	0.	0.	0.	0.	0.	0.	. 0
B1) Business travel, entercainment & gifts	0.	0.	O.	0.	0.	0,	0.	0.	0.	0.	0
92) Office supplies	**	.,	= -				•				
•	405011	406717	113362.	11998.	-4636.	44426.	12337.	12508.	6491.	1117.	20894
TOTAL	705213.	486717.	112304.	113700	-40101	777691	,				

16	MT	, T .	IONS.	1	067	١
- 18	MII	١.١.	IONS.	- 1	4n /	1

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:						•		S&L	S&L		CATR
INDUSTRIES .	TFD	PCE	GCF	INV	EXP	DEF	FGP	EDUC	HWS	S&LS	S&LP
NFORMATION I IDUSTRIES				•				1.			
1*) Info buildings: office,education,comm.	12162.	0.	5674.	0.	. 15.	75.	225.	5430.	0.	266.	477.
2*) Maintenance & repair on info buildings	1424.	0.	0.	0.	0.	. 0•	186.	, 164.	150.	71.	252. · 54.
3*) Office furniture & equipment	941.	0.	649.	20.	11.	9.	3?.	161.	4. 16.	1. 3.	29.
(*) Paper: printing (exc boxes)	364.	52.	0.	107.	82.	12.	23. 32.	40. 715.	11.	3.	105.
5*) Printing & publishing .	5689.	4190.	٥.	274.	244. 10.	115.	1.	1.	0.	o.	0.
7*) Ink	17.	0.	0.	5. 35.	114.	. 6.	9.	6.	0.	0.	0.
B*) Frinting & paper machinery	783.	0. 115.	613. 3352.	155.	710.	19 -	291.	.118.	10.	1.	31.
l*) Computers, calculators, office equip.	4977. 1044.	0, .	629.	20.	166.	166.	50.	2.	٥.	1.	9.
3°) Electronic measuring instruments	12792	3752.	2937.	600.	58C.	4143.	657.	93.	3.	14.	11.
6*) Radio, TV, comm'n equipment	1316.	176.	18.	139.	. 372.	494.	103	4.	0.	-8	T.
7*) Plectrunic components 8*) Misc electronic instruments	193.	0.	133.	1.	25.	1.	۲.	2.	12.	0.	0.
2*) Mech measuring & control instruments	2,117.	427.	615.	78.	144	38 3.	83.	17.	34.	4.	15. 18.
3*) Photographic & related equipment	2532.	. 734.	920.	78.	313.	272.	10	65. 23. -	56. 0.	4. -0.	1.
(*) Advertising signs & displays	522.	210.	241.	18.	35.	1.	1. 13B.	136.	99	63.	253.
(*) Telecommunications, exc. radio & TV	10238.	8065.	1096.	0.	140.	324. . 0.	0.	7.	0.	0.	0
7*) Radio, TV, CATV	7.	0.	0.	0.	0. S14	184.	50.	25.	41.	,12.	31.
34) Trade margin on info goods	15900.	13924.	1014.1	101. -1.	516. 90.	14.	36.	172.	39.	7.	151.
O*) Finance & insurance: components	. 258 24.	25311.	4. 778.	0.	214.	38.	60.	62.	40.	٦,	118.
*) Real estate: fees, royalties, office rental	9389.	8070. 1137.	. 0.	Ů.	. 0.	1.	-0.	Ž.	3.	14	1.
2*) Repair: radio & TV equipment	1144.	4262	. 0.	0.	408.	1003.	586.	430.	286.	66.	300.
3*) Misc business info services	7341. 2183.	1795	0.	-57.	322.	87.	5.	24.	0.	· 4.	4.
*) Motion pictures	23.47.	21229.	0.	0.	0.	721.	:000,	101.	323.	32.	41.
*) Medical, educational, nonprofit	1492.	1084.	0,	0.	14.	. 150 •	46.	23.	65.	9.	101.
P) Postal service P) Office Supplies	450 .	0.	0.	0.	0.	79.	77.	143.	30.	14.	107.
ON-INFORMATION INDUSTRIES	p .	.' ' .				1			•		
	2070.	1864.	0.	129.	55.	4.	. 4.	, 1.	10.	1.	2.
1) Livestock 6 products	6957.		0.	1031.	31 14.	6.	-1202.	16.	9.	4.	43.
2) Other agricultural products	261.	462.	0.	2.	٠.	4.	-259.	1.5	2.	ļ.	l. 5.
3) Forestry and fishery products 4) Agr., Forest, Fish Services	187.	140.	0.	٥.	, 1 ₄ ,	8.	l.	16.	, 1.	1.	
5) Iron & ferroalloy ores mining	95.	0.	0,	25.	122	-52.	-0.	0.	0.	0.	` 0.,
6) Nonferrous metal ores mining	162.	0.	٥.	12.	35.	47,	67.	0.	0.	0. 1.	٧.
7) Coal mining	614.	125	0,	125.	306.	294	7.	15.	1. 0.		0.
8) Crude petroleum and natural gas	334.	0.	0.	257.	82.	0.	. • _1	0.	0.	0.	-46.
9) Stone a clay mining & quarrying	51.	4.	0.	12.	83.	•l.	,-1, 0,	0. 0.	0.	0.	31.
(0) Chemical & fertilizer mineral min.	189.	2.	7.	8.	148.	*-0.	2275.	746.0	1708.	04	13434.
ll New construction, Net	67532.	0.	48664.	0.	0.	705. 778.	294.	7.	0.	0.	2997.
2) Maintenance & repair construction	4076.	0.	0.	0. 147	0. 309.	5145.		0.	0.	7.	0.
3) Or hance and accessories	1798.	331.	25.	147.	1906.	165.	448.	68.	273.	73.	63.
(4) Food & kindred products	56643.	62747.	0.	899. 189.		0.	0.	0.	0.	-1.	0.
15) Tobacco manufactures	6213.	5423-	0.	114.	250.	59.	1.	9,	17.	1.	1.
16) Fabrics, yarn & thread mills	1060.	609.	0. 89.	107.		ii.	6.	· - 0.	0.	-l.	0.
17) Misc. textile goods & floor cover.	1749.	1446.	0.	281.	169.	11.	31.	2.	11.	. 28.	\ . 2.
19) Apparel '	17320.	16719.	0.	49.	74.	259.	- 13.	5.	12.	-5.	5.
19) Misc. fabricated textile products	2452.	2940. 266.	7.	121.	367.	10.	8.	3.	0.	0.	0.
20) Lumber, wood prod. exc. containers	190.	260 .	0.	2.	3.	17.	3.	0. :	0.	0.	. 0.
21) Wooden containers	26. 4290.	3973.	164.	49.	24.	20.	30.	21.	2.	2.	3.
121 Neurobeld furnitura					8.	22.	18.	73.	2.	-2•	4.,
22) Household furniture	1200	179.	781.	2V.	9.	•		1			11
23) Other furniture, fixtures, Net	1308.	179. 1494.	783.	20. 121.	567.	37.	31.	53.	13.	1.	16.
23) Other furniture, fixtures, Net 24) Paper, allfed prod. exc containers, Net 25) Paperboard containers, boxes	1308. 2340. 187.	179. 1494. 75.		121.				53. 12.	13. 6.	1.	16. 1.

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!	<u> </u>			1					, ,		S&L	S&L	1	
1	-		na 9	TFD	PCE	GCF	INV	EXP	DEF	FGP	EDUC	HWS	S&LS	S&LP
i	_ <u>I</u>	NDUSTRIE	3	Tru	PUD	GCI	TIAA	DVL			-	44110		
į	26)	Printing & p	ublishing, Net	155.	49.	0.	23.	8.	28.	17.	5.	2.	1.	22.
	27)	Chemicals, so	elect Chem products, Net	4125.	519.	0.	300.	1700.	1029.	464.	13.	31.	2.	65.
	28)	Plastics, sy	nthetic materials	767.	18.	0.	25.	67C.	52.	0.	0.	0.	o.	0.
	29)	Drugs, Clean	ing, Toilet preparations	8857.	1506.	0.	221.	435.	97.	71.	145.	359.	5.	19.
	30)	Paints & all.	ied products	. 161.	53.	0	54.	47.	2.	l,		2.	-2.	1.
	31)	Petroleum re	fining & related ind's	12979.	10491.	0.	541.	765.	751.	139.	146.	34.	33.	79•.
	32)	Rubber & mis	c plastics products	3324.	2335.	30	142.	323.	284.	37.	44.	41.	44. 0.	43. 0.
	33)	Leather tann	ing, ind. leather prods.	42.	0.	0.	6.	43.	4.	2	Q. 0	0.		0.
,	34)	Footwear & o	ther leather products	3822.	3765.	0.	21.	20.	11.	2.	0,	1.	. 2.	0.
¢,		Glass & glas		580.	327.	0.	39.	145.	8.	. 8.	22. 9.	29. 2.	1.	0.
	36)	Stone & clay	products	591.	252.	0.	127.	177.	18.	4. 4.	0.	ő.	2.	0,
	37)	Primary iron	s steel manufacturing	1271.	4.	0.	514.	518.	229. 33.	-34.	0.	0.	ö	~ 0.
•			errous metal manufacturing	1111.	15.	34. 10.	336. 61.	726. 16.	10.	- J4. 0.	0.	0.	Ŏ.	0.
		Metal contai		.97.	0.	933.	128.	284.	143,	43.	0.	0.	0.	0.
	40)	Heating, plu	mbing & struc metal prods.	1579.	. 68. . 385.	0.	86.	274.	86.	31.	23.	2.	-14.	i. 。
	41)	Stamping, scr	ew mach. prods & bolts	876.	197.	337.	198.	434.	18 1.	37.	27.	4.	-3.	5.
			ated metal products	2017. 1683.	149.	135.	55.	393.	293.	49	0.	0.	0.	9.
	43)	Engines and	turbines	3864.	40.	2942.	409.	419.	20.	3.	9.	2.	3.	15.
	44)	Farm machine	ry & equipment	4061.	0.	2428.	58.	1269.	236.	13.	Ö.	11.	0.	46.
	45)	Const., mini	ng & oil field machs.	1360.	. 0.	1107.	36.	132.	66.	17.	1.	0.	0.	0.
	46)	Materials na	indling mach & equipment	4356.	90.	3461.	167.	486.	92.	36.	14.	2.	0.	7.
			mach & equipment	3376.	23.	2592	56.	677.	19.	5.	5:	0.	0.	0.
			th & equipment, Net	2907	0.	1888.	125.	627.	194.	50.	0.	0.	5.	7.
			mach & equipment	316.	4.	5.	32.	63.	78.	В.	108.	.14.	0.	2.
		Machine shop		0.	0.	0.	0.	0.	٥.	0.	0.	0.	0.	′ O.
			& accounting machines	2839.	416.	1729.	126.	359.	77.	7.	105.	14.	2.	3.
			istry machines	3294.	29.	2257.	112.	391.	377.	69.	16.	2.	0.	39.
•		Household ap	uip & apparatus, Net	4056.	3641.	127.	102.	149.	9.	3.	13.	9.	2.	0.
	55)	Eleatricity of	nting & wiring equip.	974.	573.	66.	57.	169.	28.	13.	55.	2.	3,	7.
	56)	Radio, teles	vision & comm. equip	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
			components & access.	0.	0.	0.	0.	0.	0.	0.,	0.	0.	0.	0.
			achinery, Net	1067.	644.	. 76.	28.	132.	149.	25.	2.	1.	3.	6.,
			les & equipment	28566.	16282.	9054	-310.	1976.	678.	155.	182.	27.	87.	435.
				13228.	51.	2367.	1918.	1809.	6272.	809.	0.	٠0.	2.	0.
			portation equipment	6241.	1109.	3430.	196.	206.	1062.	220.	Q. "	0.	10.	8.
	62)	Scientific	controlling instru.	1066.	191.	517.	31.	107.	86.	50.	7.	73.	2.	l
	63)	Optical, opi	hthalmicaphoto equip, Net	353.	326.	0.						<i>?</i>		
	64)	Misc manufac	cturing, Net	5286.	4336.	291.	130.	297.	46.	38.	118.	3.	-6.	-32.
	65)	Transportat:	ion & warehousing	20386.	11728.	829.	228.	*****	2397•	328.	632.	113.	39.	201.
	66)	Comm. exc r	adio:TV broadcasting	0.	. 0.	0.	0.	0.	0.	0.	0.	. 0.	0.	0.
	67)	Radio & TV	broadcasting ;	0.	0.	0:	0.	0.	0.	0.	0.	0.	.04	
			s,water & sanitary svcs	16298.	14340.	. 0.	0.	74.	236.	49.	1054.	96. 213.	56. 47.	393. 127.
			retail trade, Net	107866.	98622.	5530	407.	2098	7 29 .	205.	-113.	0.	0.	34.
			nsurance, Net	725.	691.	0.	. 0,	0.	0.	0.	0. 106.	68,	16.	, 200.
	71)	Real estate	& rental, Net	67101.	64859.	1322.	0.	363.	65.	103.	-161.	62.	23.	144.
			onalarep svcs exc auto,Net	15368.	14785.	0.	0.	3,	408.	105.	201.	84.	30.	155.
		Business se		1708.	461.	· 0.	0.	49.	489. 0.	238. 0.	0.	0.	0.	0.
			nd Development)	0.	0.	. 0.	0.1	0.	44.	9.	43.	20	23.	68.
			repair & services	8509 .	8303.	, 0.	0.	· 0.	70.	-12.	-0.	0.	0.	-3.
	76)	Amusements,	Net	3997.	3938.	0.	0.	D.,	148.	141.	37,	1913.	8.	26.
	77)	Medical, edu	c svcs@non-profit org, Net	23350.	21078.	0.	0.	92.	30.	10	4.	10.	ì.	16.
			t enterprises, Net	339.	175.	0.	0.	0.	5.	280.	13.	1.	4.	4.
			al govt enterprises	1259.	952.	658.	-100.	-40791.	2302.	1087.	Ö.	1.	0.	2.
	80)	Imports	interprisent colden	-26685. . 0.	10157.	0.	0.	0.	0.	0.	. D.	Ĉ,	0.	0.
			avel, entertainment & gifts	. 0.	0.	0.	0. ;	ů.	0.	o.	0.	0.	0.	0.
	82)	Office supp	1162	U•	v.	•		••		1		•	•	
			•	710479.	500869.	113362.	11998.	-4636.	35541.	12337.	12508.	6491.	1117.	20894.
	l _i	Total		170414	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							, '!		
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INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	EDUC	HWS	S&LS	S&LP
NFORMATION INDUSTRIES		•					•	•			
	12162.	0.	5674.	. 0.	" 15.	75.	225.	5430.	0.	266.	477.
*) Info buildings: office,education,comm. *) Maintenance & repair on info buildings	7731	4357.	842.	105.	307.	286.	291.	853.	215.	80.	389.
	1132.	. 59.	7243	25.	21.	28.	37.	. 172.	5.	1.	58.
	4579	2957.	425	204.	118.	177.	99.	193.	58.	12.	136.
(*) Paper: printing (exc boxes) (*) Printing & publishing	20808	14448.	1751.	484	867.	825.	401.	1196.	211.	44.	581.
	386.	255.3	35.	14.	29.	15.	8.	16.	4.	1.	10.
7*) Ink 9*) Printing & paper machinery	966.	76.	702.	40.	134.	10.	11.	9.	1.	0.	2.
1*) Computers, calculators, office equip.	6622.	681.	3996.	198.	860.	309.	356.	150.	17.	2.	52.
3*) Electronic measuring instruments	1446.	112.	154.	36.	206.	246.	67.	7.	3.	1.	15.
5°) Radio, TV, comm'n equipment	16218.	4817.	3739.	157.	843.	4994.	840.	131-	15.	19.	63.
7*) Electronic components	7698.	2130.	1691.	400.	857.	2030-	442.	67.	17.	16.	47.
9*) Misc electronic instruments	242	22.	148.	8.	34.	10.	3.	2.	13.	0.	1.
2*) Mech measuring & control instruments	4282 .	1056	1317.	155.	642.	701-	16 .	87.	54.	9.	97.
3*), Photographic & related equipment	4286.	1834.	1139.	134.	406.	419.	125.	107.	87.	8.	57.
4*) Advertising signs & displays	1690.	917.	425.	34.	84	61.	34.	71.	16.	-4,	51.
	19517.	14266.	2434.	142.	565.	617.	312.	302.	132.	58.	489.
(4) Telecommunications, exc. radio & TV	3191.	2072.	441.	39.	142.	164.	79. ′	91.	45.	9.	108.
7*) Radio, TV, CATV	23077.	17984.	2610.	232.	893.	502.	171.	192.	111.	25.	358.
*) Trade margin on info goods	47661.	42466	2143.	214.	612.	541.	231.	463.	17 2.	30.	589.
Pinance & insurance: componentsReal estate: fees, royalties, office rental		16662.	2407.	248	929.	565.	225.	262.	167.	29•	407.
*) Real estate: redic : Mi equipment	1483.	1392.	33.	4.	12.	16.	5.	5.	1.	1.	7.
*) Repair: radio & TV equipment	47452.	30765.	6626.	593.	2135.	. 2465.	1176.	1261."	675.	130.	1627.
*) Misc business info services	4971	3676.	199.	-68	558.	207.	43.	74.	20.	7.	52.
4) Motion pictures	24994.	22331.	198/	21.	60.	785.	1024,	126.	337.	34.	79.
*) Medical, educational, nonprofit	4538.	3333.	323.	37.	126.	. 270.	97.	78.	97.	14.	164.
*) Postal service *) Office Supplies	2609.	1604.	23,6.	26.	80.	164.	110.	175.	48.	17.	150.
			ί	, .							
			/		٠	•					
ON-INFORMATION INDUSTRIES		, ,	• /•								
1) Livestock & products	31323.	28471	427.	620	1155	181.	98.	75	156	32.	107.
2) Other agricultural products	28705.	23123.	544.	1454.	4151.	187.	-1158.	94.	115.	26.	171,
Corestry and fishery products	1971.	1373-	445.	. 37.	134.	45.	-232.	34.	20.	3.	113.
4) .gr., Forest, Fish Services	2700.	2103.	183.	83.	244.	29.	-49.	32.	15-	4.	55.
5) from & ferroalloy ores mining	1739.	525.	590.	98.	2.91 •	73.	39.	36.	12.	3.	74.
2) From a regroundly over mining	1607.	412.	472.	83.	212.	178.	114.	55.	11.	3.	67.
6) Nonferrous metal ores mining	3169.	1623.	.441-	199.	502.	151.	49.	92.	21.	6.	84.
7) Coal mining	15131.	10564.	1232.	560.	968.	717.	186.	301.	94.	32	378.
8) Crude petroleum and natural gas	2353.	648.	973.	50.	181.	70.	54.	85.	35.	4	252.
9) Stone & clay mining & quarrying		431.	104.	39.	276.	66.	24 .	14.	8.	1.	57.
0) Chemical & fertilizer mineral min.	1021.	0.	48664	0.	0.	705.	2275.	746.	1708.	0.	13434.
1) New construction, Net	67532.	9404.	771.	124.	466.	1068-	417.	186.	. 61.	15.	3170.
		7707.	241.	223.	418.	5809.	2023.	8.	2.	. 8.	9.
12) Maintenance & repair construction	15663.	E41		6071			655,	193.	464.	101.	244
12) Maintenance & repair construction 13) Ordnance and accessories	9296 •	554.		1275.	7791. 1	310-					•
2 Maintenance & repair construction 3 Ordnance and accessories 4 Pood & kindred products	9296. 91541.	84377.	918.	1275.	2797.	518. 14.		5.	3.	-1.	1.
2 Maintenance & repair construction 3 Ordnance and accessories 4 Pood & kindred product; 5 Tobacco manufactures	9296. 91541. 8135.	84317. 7043.	918. 42.	244.	774.	14.	5.	5. 84.	3. 73.	-1. 18.	
12) Maintenance & repair construction 13) Ordnance and accessories 14) Food & kindred products 15) Tobacco manufactures 16) Fabrics, yarn & thread mills	9296. 91541. 8135. 16228.	84377. 7043. 13496.	918. 42. 722.	244. 440.	774. 743.	14. 464.	5. 81.	. 84.		. 1	107.
12) Maintenance & repair construction 13) Ordnance and accessories 14) Food & kindred products 15) Tobacco manufactures 16) Fabrics, yarn & thread mills	9296. 91541. 8135. 16228. 4730.	84317. 7043. 13496. 3446.	918- 42- 722- 579-	244. 440. 167.	774. 743. 226.	14. 464. 131.	5. 81. 31.	. 84 . 42	73.	18.	107. 85.
12) Maintenance & repair construction 13) Ordnance and accessories 14) Food & kindred products 15) Tobacco manufactures 16) Fabrics, yarn & thread mills 17) Misc. textile goods & floor cover.	9296. 91541. 8135. 16228. 4730. 23145.	84377. 7043. 13496. 3446. 21947.	918. 42. 722. 579. 215.	244. 440. 167. 377.	774. 743. 226. 271.	14. 464. 131. 158.	5. 81. 31. 58.	84. 42. 18.	73. 21. 26.	18. 3. 36.	107. 85. 38.
12) Maintenance & repair construction 13) Ordnance and accessories 14) Food & kindred product; 15) Tobacco manufactures 16) Fabrics, yarn & thread mills 17) Misc. textile goods & floor cover. 18) Apparel 19) Nisc. fabricated textile products	9296. 91541. 8135. 16228. 4730.	84317. 7043. 13496. 3446.	918- 42- 722- 579-	244. 440. 167.	774. 743. 226.	14. 464. 131.	5. 81. 31.	. 84 . 42	73.	18. 3.	7. 1 07. 85. 38. 29. 1267.

TABLE 18: TOTAL OUTPUTS IN EXPERIMENTAL ECONOMY I (By Final Demand Components) - (Cont'd)

				19 112	TPTOM9 1						٠
INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	S&LS	S&LP
		1								,	
1) Wooden containers	542.	360.	68.	16.	39.	35.	4.	5.	3.	1.	10.
2) Household furniture,	5211.	4217.	564.	67.	49.	118.	ól.	37.	14.	3.	81.
Other furniture, fixtures, Net	1747.	248.	1213.	26.	19.	40.	29.	122.	1.	0.	42.
) Paper, allied prod. exc containers, Net	12836.	8590.	1262.	364.	1162.	443.	?16.	348.	118.	29.	305.
) Paperboard containers, boxes	6088.	4 390.	. 916.	159.	337.	243.	87.	91:	56.	10.	97.
) Printing & publishing, Net	1679.	1,127.	155.	45.	69.	93.	49.	50.	20.	5.	65.
7) Chemicals, select Chem products, Net	22569.	12006.	2088.	897.	3682.	2094. 439.	739. 110.	311. 110.	217. 56.	32. 17.	503. 163.
Plastics, synthetic materials	8455. 12832.	5182. 10749.	939.	243. 270.	1196. 582.	204.	125.	174.	474.	9.	. 60.
Drugs, Cleaning, Toilet preparations	2917.	1325.	184. 722.	95.	174.	130.	67.	103.	M.	5,	264.
)) Paints & allied products	27111.	18953.	2363.	90. 840.	1802.	1439.	355.	431.	161.	56.	710.
) Porroleum refining & related ind's		8574.	2186.	338.	930.	796.	213.	247.	138.	63.	359.
Rubber & crisc plastics products	13843.	996.	2130.	2.	62.	15.	5.	2.	1.00	1.	337.
) Leather tanning, ind. leather prods.	1114. 4353.	4217	32.	26.	32.	:25.	1.	2.	4.		6.
) Footwear & other leather products	3830.	2472	. 508.	90.	306.	151.	61.	99.	58.	2. 9.	78.
Glass & glass products	11304.	1999.	5507.	222.	435.	301.	299	628.	185.	32.	1395.
) Stone & clay products	31375.	9824	11563.	1373.	3045.	. 2449.	734.	696.	216.	52.	1423.
) Primary iron & steel manufacturing	20551.	5446.	7160	1032.	2460.	1868.	521.	874.	151.	51.	988.
Primary nonferrous metal manufacturing	. 3405.	2696.	189	124.	172.	81.	33.	33.	28.	4.	46.
) Metal containers	12446.	1382.	7051.	186.	463.	405.	364.	778.	194.	39.	1584.
Heating, plumbing & struc metal.prods.	9 2 29 .	4486.	2300.	246.	855.	747.	204.	146.	44.	3.	198.
)/Stamping, screw mach. prods & bolts	12430.	4989.	3740.	417.	1075.	892	287.	331.	96.	19.	585.
) Other fabricated metal products	3729.	713.	1646.	125.	599.	459.	89.	22.	9,	3,	66.
Y Engines and turbines	4820.	467.	3252.	456.	530.	56.	1.	18.	7.	4.	29.
Farm machinery & equipment	5903.	571.	3163.	106.	1473.	343.	51.	35.	27.	3.	130.
) Const., mining & oil field machs.	2518.	265.	1648.	53.	200.	109.	45.	79.	14.	4,	. 101.
) Materials handling mach & equipment	8576.	1451.	4981.	316.	893.	557.	152.	81.	22.	6.	107.
) Metalworking mach & equipment	4726.	654.	3000.	91.	823.	80.	25.	20.	7.	1.	25.
Spec ind mach & equipment, Net	7695	1380.	3896.	285.	1135.	561.	159.	79.	26.	12.	161.
) General ind mach & equipment	3925.	1269.	983.	176.	368.	600.	128 .	170.	32.	6.	92.
)) Machine shop products	. 0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Office comp & accounting machines	5274.	11283.	2693.	151.	474.	161.	50.	231.	42.	11.	170.
2) Service industry machines	8305.	1510.	4349.	251.	823.	137.	183. /	164.	37.	10.	241.
)) Elec ind equip & apparatus, Net	5550	4266	637		231			60.	21.		91.
() Household appliances	4112.	1437.	1430.	95,	303.	182.	100.	219.	41.	13.	292.
5) Electric lighting & wiring equip.	. 0.	0.	0.	0.	0.	· ò.	١ 0.	0	0.	0.	0.
Radio, television & comm. equip	0.	0.	0.	0.	0.	0.	o.	0.	0.	Ů.	. 0.
) Electronic components & access.	2867.	1565.	550.	62.	268.	271.	52.	31.	9.	7.	52
Misc elec machinery, Net	44144	25209.	13537.	-345.	3020.	1220.	293.	317.	61.	129.	702.
)) Motor vehicles & equipment	19762	792.	3496	2510. €	25114	9002.	1366.	31.	9.	6.	38.
) Aircraft and parts	7552.	1605.	3879.	229.	314.	1200.	249.	20.	7.	12.	38.
) Other transportation equipment) Scientific & controlling instru.	1792.	696.	607.	42.	139.	119.	62.	15.	100.	3.	10.
	475.	399.	23.	~ ?.	16.	21.	∫1 .	2.	4.	0.	2.
Optical, ophthalmicaphoto equip, Net	7844.	6242.	573.	167.	385.	133.	/13.	154.	24.	-3.	96.
) Misc manufacturing, Not	52321.	30673.	6825.	8 30 .	5897.	3947	873.	1324.	406.	95.	1450.
) Transportation & warehousing	0.	0.	Q.	, 0,	0.	0.	/ O.	0.	0.	0.	0.
) Comm. exc radio(TV broadcasting	. 0.	0.	o.	0.	0.	0.	0.	0.	0.	0.	٥.
7) Radio & TV broadcasting	37865.	29556:	2509.	342.	1103.	1085	385.	1576.	311.	96.	903.
 Electric, gas, water & sanitary svcs Wholesale & retail trade, Net 	143358.	118418.	13658	1018.	3868.	2271.	817.	743.	571.	. 111.	1885.
	1241.	1104.	44.	5.	16.	13.	5.	. 7.	3.	1.	43.
0) Finance & insurance, Net	91771.	82865.	4091.	421.	1579.	961	383.	446.	284.	50.	692.
l) Real estate & rental, Net	19708.	17974.	508.	58.	170.	606.	174.	-106.	110.	30.	235.
2) Notels:personalirep svcs exc auto,Net	9482	5299.	1306.	157.	480	898.	370.	350.	157.	42.	422.
3) Business services, Net	7400	0.	1300.	0.	0.	0.	.0.	0.	.0.	0.	. 0.
4) (Research and Development)	15033.	12733.	1025.	67.	309.	287.	97.	152.	75.	34.	255.
5) Automobile repair & services	4831.	4587.	78.	7.	37.	98.	-3.	11.	6.	1.	7.
6) Amüsements, Net				**							•
7) Medical, educ svcs&non-profit org, Net	24569.	22099.	59.	8.	22.,	178./	164.	47.	1945.	9.	38.

TABLE 18: TOTAL QUIPUTS IN EXPERIMENTAL ECONOMY I (By Final Demand Components) - (Cont'd)

INDUSTRIES	TFD	PCE	GCF	· INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	S&LS	S&LP
78) Pederal govt enterprises, Net 79) State & local govt enterprises 80) Imports 81) Business travel, entertainment & gli 82) Office supplies	3222. 9168. -2786. 5 11240.	2513. 7401. 23161. 7126.	233. 696. 5581. 1869.	23. 83. 625. 188.	179. 362. -38772. •536. 0.	96. 295. 3801. 633. 0.	35. 371. 1466. 226. 0.	48. 277. 466. 205. 0.	27. 65. 168. 118. 0.	5. 21. 40. 18. 0.	63. 196. 678. 321. 0.
	$c = c \frac{f}{f}$	t	1	•		•				•	
Total non-information Total information Total	1139861. 293663. 1433511.	748045. 192474. .940518.	206518. 41013. 247529.	22357. 4054. · 26410.	24037. 11934. 35971.	55358. 16683. 72041.	18086. 6583. 24669.	15416. 11523. 26939.	1 0069. 2526. 12594.	1537. 809. 2346.	38445. 6065. 44511.

INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L/ EDUC	S&L HWS	•	Seli
INDUSTRIES	Tru	PCE	GCI	TIVA	DAY	ינוע	rur	EDUC	כמת	S&LS	ותאכ
		s*		,		1		1	,		
	•	, .				1		1	1		
NFORMATION XNDUSTRIES				,		i		ĺ	1		
) Info buildings: office,education,comm.	12162.	0.	5674.	0.	15.	75.	225.	5430.	ο.	1 244	4.77
) Maintenance & repair on info buildings	1430.	0.0	0.	0.	0.	0,	187.	768.	0. 151.	266. 71	253.
) Office furniture & equipment	948.	٥.	654.	21.	. 11.	9.	32.	163.	4.	1.	54.
Paper: printing (exc boxes)	384.	55.	0.	112.	86.	12.	25.	42.	17.	4,	31.
Printing & publishing	6459.	4758.	0.	311.	277.	131.	36.	812.	13.	3.	119.
) Ink	17.	٥.	0.	5.	. 10.	0.	1.	1.	0.	Q.	0.
) Printing & paper machinery	858.	0.	671.	30.	125.	/1.	10,	6.	0.	. 0.	0.
) Computers, calculators, office equip.	5745.	133.	3869.	179.	819.	274.	335.	137.	11.	1.	36.
) Electronic measuring instruments	1087.	0.	654.	21.	173.	1/73.	52.	/ 3.	1 1.	1.	10.
) Radio, TV, comm'n equipment) Electronic components	13770. 1552.	4039. 207.	3161 • 22•	646. 164.	625. 439.	4460.	708	100.	4.	15.	12.
) Electronic components) Misc electronic instruments	205.	201.	141.	8.	31.	58 2. 7.	122. 3.	5.	1. 13.	9. 0.	2.
) Mech measuring & control instruments	2304	465.	669.	85.	502.	417.	90.	19.	38.	· U.	· 0.
) Photographic & related equipment	2700.	783.	981 - 4	83.	334.	290.	75.	70.	60.	5.	19.
) Advertising signs & displays	541.	217.	250.	18.	36,	1.	1.	24.	0.	-8.	1.
) Telecommunications, exc. radio & TV	10339.	3145.	1107.	0.	141.	327.	140.	137.	44.	43.	255.
) Radio, TV, CATV	7.	0.	0.	0.	· 0.	0.	•0.	1.	0.	Ç,	0.
) Trade margin on into goods	15999.	14011.	1020.	102.	520.	185.	51.	26.	42.,	12.	31.
) Finance & insurance: components	31623.	30994.	5.	- j.	111.	17.	45.	211.	48.	8.	185.
) Real estate:fees,royalties,office rental:		8271.	797.	0.	219.	39.	62.	64.	41.	10.	121.
) Repair: radio & TV equipment	1148.	1141.	. 0.	90.	0. /	وا	11.	2.	3.	1.	1.
) Misc business info services	7854.	4561.	0	0.	437.	1073.	627.	460.	306.	71.	321.
) Motion pictures) Medical, educational, nonprofit	3332. 23504.	2740.	0.	-87. 0.	492.	133.	1003	37.	0.	.3.	6.
) Postal service	1493.	21282. 1085.	0. 0.	0.	14.	723. 150.	1003.	· 101. 23.	323. 65.	32.	41. 101.
) Office Supplies	451.	D.	0.	° 0	.0.	79.	77.	143.	30.	14.	108.
, overes a effective	. '/**	••	. ••	٠.	•]	174	''].	1771	200		
•					1					1.1	ì
ON-INFORMATION INDUSTRIES	•		æ		.	٠,	- J				<i></i>
) Livestock & products	2704	2435.	0.	169.	+ 12.	5.	5.	2. '	13.	. 2.	2.
) Other agricultural products	7426.	4126.	ů.	1100.	3399.	6.	-1283.	17.	10.	5.	46.
) Forestry and fishery products	266.	470		2.	48.	4.	-264.	1.	Ž.	ĺ.	2.
) Agr., Forest, Fish Services	189.	141.	0.	0	15.	8.	1.	17.	1.	2.	5.
) Iron & ferroalloy ores mining	101.	0.	0.	27.	129.	-55,	/ -0.	0.	0.	0.	. 0.
Nonferrous metal ores mining	185.	0.	0.	14.	40.	54.	76.	0.	0.	0.	0.
) Coal mining	. 704.	143.	0.	144.	351.	33.	∫! 8• ·	18	. 5•	1.	5.
) Crude petroleum and natural gas	349.	0.	U.	265.	85.	0.	/ 0.	0.	0.	0.	0.
) Stone & clay mining & quarrying	53.	4,	0.	12.	86.	-1.	/ -1.	0.	0.	.0.	-48.
) Chemical & fertilizer mineral min.) New construction, Net	202	3.	0.	8.	158.	-0.	<i>∦</i> 0.	0.	0.	. 0.	33.
) Maintenance & repair construction	67532. 4094.	0.	48664.	0.	0.	705.	2275.		1708.	0.	13434.
) Ordnance and accessories	8453.	0. 359.	27.	0. 159.	335.	782. 5577.	295.	7. 0.	0.	0.	3010.
) Food & kindred products	83756.	78860.	. 21.	1130.	2395.	208.	1988. 564.	0. 85.	344.	7. 91.	0. 70.
) Tobacco manufactures	7874.	6873.	0.	240.	762.	0. /	J04. 0.	0.) , ,	·1.	79. 0.
) Fabrics, yarn & thread mills	1598.	919.	' 0.	172.	377.	B9.	1.	13.	· 25.	1.	1.
) Misc. textile goods & floor cover.	1688	1562-	96.	116.	96.	12.	7.	0.	0.	-2.	0.
) Apparel	21883.	21123.	0.	355.	214.	. 97.	39.,	3.	14.	35.	2.
) Misc. fabricated textile products	2520.	2097.	0.	50√	76.	266.	13.	6.	12.	-5 .	5.
1 wrac, repriedice reverse hindanily	67500 1	60711	v.	201	104		4.74	u e /		4.6	

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INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	S&LS	S&LP
INDUSTRIES									بر و		
11 Wooden containers	26.	, 0.	0.	3.	3.	17.	3.	0.	0.	0%	0.
22) Household furniture	4360.	4038.	167.	50.	24.	21.	31.	21.0	0. 3.	2.	3.
23) Other furniture, fixtures, Net	1354.	185.	1018.	21.	9.	23.	18.	76.	2.	-2.	4.
24) Paper, allied prod. exc containers, Net	2691	1718.	0.	140.	652.	43.	36.	61.	15.	8.	. 19. a
25) Paperboard containers, boxes	194.	78.	0.	40.	25.	24.	5.	12.	7.	2.	l
26) Printing & publishing, Net	157.	49.	Ō.	23,	8.	29.	17.	. 5.	2.	4.	23.
27) Chemicals select Chem products, Net	5218.	656.	0.	380.	J151.	1301.	388.	17.	40.	2.	83.
18) Plactics, symphotic materials	807.	19.	0.	· 21./	705.	55 n.	0	0.	0.	0.:	0.
231 Drugs, Cleaning, Toilet preparations	9395.	7962.	0.	235.	462.	103.	75.	153.	381.	5.	20.
10) Paints & allied p. ducts	163.	54.	0.	55.	48.	` Z•	1.	. 2.	2.	-2.	1.
31) Petroleum refining & related ind's	14052.	11390.	ا کو	588.	83 O.	816.	151.	158.	37.	36.	86.
32) Rubber & misc plastics products	3504.	2462.	32.	150.	340.	299.	39.	47.	43.	46.	45.
33) Leather tanning, ind. leather prods.	48	Ō.	0.	-7	49.	4.	2.	0.	0.	0.	0.
34) Footwear & other leather products	3930.	3872.	0,	21.	. 20.	11.	2.	0.	1.	2.	. 0.
35) Glass & glass products	620.	349.	0.	42.	155.	9.	9.	23.	31. 🖟	, 2∙	, 0.
36) Stone & clay products	669.	285.	0.	. 144.	201.	21.	4.	11.	3.	1.	0.
37) Primary iron & steel manufacturing	1622.	5.	0.	656.	662.	292.	5.	0.	0.	. 3.	0.
38) Primary nonferrous metal manufacturing	1670.	23:	52.	505.	1092.	50.	-51.	0.	0.	٥.	0,
39) Metal containers	99.	0.	11. 3	0 62.	. 16	10.	0.	0.	0. ,	٥.	· 0•
40) Heating, plumbing & struc mucal prods.	1649.	70.	962.	132.	293.	147.	44.	0.	0.	0.	0.
41) Stamping, screw mach. prods & bolts	912.	401.	0.	89.	286.	90.	33.	24.	2.	'-14.	l.
42) Other fabricated motal products	2118.	837.	354.	208.	456.	190.	39.	28.	4.	-3.	5.
11) Engines and turbines	1831	162.	800.	59.	428.	318.	53.	0.	٥.	· 0.	10.
44) Farm machinery & equipment	4067.	42.	3097	431.	441.	21.	4.	10.	3.	3.	16.
45) Const., mining & oil field machs.	4311.	0.	2578.	62.	1348.	250.	14.	0.	- 12.	0.	48.
46) Materials handling mach & equipment	1439.	Q.	1172.	39.	140.	69.	18.	1.	0.	· 0.	0.
47) Metalworking mach & equipment	4719.	90.	3750.	181.	576.	100.	39.	16.	2.	0.	7.
48) Spec ind mach & equipment, Net	3598	24.	2762.	59.	721.	21.	- 5.	٠.	0.	0.	0.
49) General ind mach & equipment 49)	3149.	0.	2045.	136.	679.	210.	65.	0.	٥.	5.	8.
	339.	5.	5.	35.	68.	84.	9.	115.	16.	1.	٤.
50) Machine shop products 51) Office comp & accounting machines	0.	ó.	0.	0.	C.	0.	0.	0.	0.	٥.	0.
52) Service industry machines	. 3048.	446.	1856.	135.	386.	83.	7.	119.	16.	3.	4.
	3597.	31.	2465.	123.	427.	412.	75.	s 17.	3.,	0.	43.
53) Elec ind equip & apparatus, Net	4138.	3715.	130.	105.	152.	9.	3.	13.	10.	2.	0.
54) Household appliances 55) Electric lighting & wiring equip.	1013.	596.	69.	60.	175.	29.	13.	57.	2.	4.	. 7.
55) Electric lighting & wiring equip. 56) Radio, television & comm. equip	0.	0.1	0.	0.	ò.	0.	0.	0.	0.	0.	0
57) Electronic components & access.	0.	0.	0.	0.	٥,	0.	0.	c, 0.	0.	0.	0.
58) Misc elec machinery, Net	1135.	686.	81.	30.	141%	159.	26.	2.	1.1	. 3.	5.
59) Motor vehicles & equipment	40002.	22800.	12679.	-434.	2767.	949.	217.	254.	37.	123.	609
60) Aircraft and parts	16876.	65.	3020.	. 2447.	2307.	8002.	1033.	0.	0.	٠2.	,0.
61) Other transportation equipment	6641.	1180.	3650.	209.	220.	1130.	234.	0.	, O'	11.	9.
62) Scientific & controlling instru.	1087.	194.	527.	32.	109.	67.	51.	8.	75.	2.	1.0
63) Optical ophthalmic&photo equip, Net	380.	351.	0.	0.	9.	13.	4.	0.	2.	-0.	0.
63) Optical: Ophthalmicaphoto equipy has	5682.	4661.	313.	139.	320.	49.	41.	127.	4.	-7.	35.
64) Misc manufacturing, Not	22965.	13212.	933.	257.	4363.	2700.	370.	713.	127	→` 44.	227.
65) Transportation & warehousing	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
66) Comm. exc radiosTV broadcasting	0,	0.	0.	. 0.	0	.0.	. 0.	0.	0.	0.	Ō.
67) Radio & TV broadcasting :	20499.	16037.	0.	C.	93.	297.	52.	1325.	120.	70.	494.
68) Electric, gas, water & sanitary SVCS		101362.	5683.	418.	2157	749.	211.	-116.	219.	48.	131.
69) Wholesale & retail trade, Net	110862.		0.	. 0.	G		0.	0.		. 0.	35.
70) Finance & insurance, Net	745.	710.				67.	105.	108.	70.	16.	205.
71) Real estate & rental, Net	68835.	66535.	1356.		373.	•	108.	-166.	64.	24.	148.
72) Hotels:personal&rep svcs exc auto,Net	15831.	15230.	.g.	0.	3. 50	420.	241.	203.	85.	30.	156
73) Business services, Net	1725.	466.	ή.	0.	50.	494.	_	0.,	0.	0.	0.
74) (Research and Development)	0.	C.	<i>}</i> .	0.	0.0	0.	0.	₹3. '	20.	23.	68.
75) Automobile repair & service:	B565.	8358.	0.		0.	44. 71	9. -12			0.	-8.
76) Amusements, Net	4179.	4117.	₹•	0.	10.	73.	-13.	- 0.	0.	٧.	,
77) Medical, educ svcs&non-profit org, Est	23649.	21347.	0.	. 0.	0.	149.	143.	37.	1938.	8.	26.

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TABLE 19: DIRECT OUTPUTS OF EXPERIMENTAL ECONOMY I (By Final Demand Components) - (Cont'd)

 INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP .	S&L EDUC	S&L HWS	S&LS	S&LP
78) Federal govt enterprises, Net 79) State & local govt enterprises 80) Imports 81) Business travel, entertainment & gifts 82) Office supplies	340. d 287. -26685. 0.	175. 973. 10157. 0.	0. 0. 658. 0.	0. 0. -100. 0.	92. 0. -40791. 0. 0.	30. 5. 2302. 0.	10. 286 1087. 0.	4. 14. 0. 0.	1. 1. 0. 0.	2. 4. 0. 0.	16. 4. 2. 0. 0.
TOTAL NON-INFORMATION TOTAL INFORMATION TOTAL	628015. 155537. . 783551.	449667. 102865. 552552.	101021. 19676. 120697.	12116. 1705. 13821.	-4635. 5415. 779.	30696. 9117. 39813.	9320. 3961. 13281.	4462. 8792. 13255.	5540. 1212. 6752.	648. 575. 1223.	19180. 2200. 21379.

						•	;	S&L	S&L	. /	/
INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	EDUC	HWS	S&LS	S&L
					i,			ų ·			•
PADUAMTAN TUDUCMDTEC											••
FORMATION INDUSTRIES	•						. 0			•	
*) Info buildings: office, education, comm.	0.	0.	0.	0.	C.	0.	0.	0.	0.	0.	0
*) Maintenance & repair on info buildings	6301.	4357	842.	105.	307.	286.	109.	85.	65.	10.	135
*) Office furniture & equipment *) Paper: printing (exc boxes)	184. 4195.	59. 2902.	70, 425.	6.	10.	19.	5.	9.	1.	. 0.	4
) Printing & publishing	14349.	9690.	1751.	92. 173.	232. 590.	165.	75.	151.	41.	8.	105
) Ink	364.	255.	35.	9.	19.	694. 15.	365. 7. :	384.	199.	41.	462
) Printing & paper machinery	128.	76.	31.	?•	10.	3.	1.	14. 2.	4.	ľ.	10
*) Computers, calculators, office equip.	\$77.	548.	127.	18.	41.	85.	21.	13.	l. 6.	0. 1.	2 16
Electronic measuring instruments	360.	112.	99.	15.	33.	73.	15,	5.	2.	i.	5
a) Radio, TV, comm'n equipment	2448.	778.	577.	111.	218.	534.	133.	31.	11.	4.	51
) Electronic components	6146.	1923.	1669.	236.	419.	1448.	321.	62.	17.	7.	45
*) Misc electronic instruments	37.	22.	1.	1.	3,	3.	1. '-	1.	0.	v.	1
) Hech measuring & control instruments	1978.	591.	648.	70.	140.	284.	75.	68.	16.	4.	. 81
*) Photographic 5 related equipment	1506. 1150.	1051.	. 158. 175.	21.	77.	129.	50.	38.	27.	4.	38
Advertising signs & displays Telecommunications, exc. radio & TV	9178.	6122.	1327.	15. 142.	48.	60.	33.	47.	16.	4.	50
Telecommunications, exc. radio & TV Radio, TV, CATV	3183.	2072.	441.	39.	424. 142.	489. 164.	173. 79.	165.	88.	14.	233
) Trade margin on info goods	7077.	3972.	1590.	130.	373.	317.	120.	84. 166.	45.	9.	108
Pinance & insurance: components	16039.	11473.	2138.	215.	702.	524.	186.	252.	69. 124.	13.	327
 Real estate: fees, royalties, office renta 	15 14280.	10391.	1610.	248.	710.	526.	164.	199.	126.	20.	404
*) Repair: radio & TV equipment	335.	251.	33.	4.	12.	15.	5.	4.	4,	1.	6
*) Misc business info services	39597.	26204.	6626.	593.	1698.	1392.	549.	801.	369.	59.	1306
*)- Motion pictures	1639.	1138.	199.	19.	66.	75.	34.	37.	20.	4.	46
*) Medical, educational, nonprofit	1490.	1049.	198.	21.	60.	63.	21.	25.	13.	2.	38
*) Postal service *) Office Supplies	3044. 2158.	2249. 1604.	323.	37.	111.	120.	50.	55.	32.	5.	63
-) Office amphites		10071	236.	žė.	80.	85.	32.	32.	18.	3.	42
·							•				
ON-INFORMATION INDUSTRIES			• '			•			• .		
l) Livestock & products	28619.	26036.	427.	452.	1083.	176.	93.	73.	143	30.	105
2) Other agricultural products	21279.	18997.	544.	354.	15 Ź.	180.	125.	76.	105.	. 21.	126
3) Forestry and fishery products	1705.	902,	445.	34.	86.	41.	32.	33.	10.	2.	111.
Agr., Forest, Fish Services	2511. 1639.	1961	183.	83.	229.	22.	- 50.	16.	14.	2.	50
i) Iron & ferroalloy ores mining i) Nonferrous metal ores mining	1421.	525. 412.	590. 472.	J. 1.	162.	128.	39.	36.	12.	3.	. 74
7) Coal mining	2465.	1480.	441.	69.	172.	124.	36.	55.	11.	3.	67
B) Crude potroleum and natural gas	14781.	10564.	1232.	56. 395.	150.	118.	42.	74.	20.	5.	79.
) Stone & clay mining & quarrying	2300	643.	973.	38.	883 . 95.	717.	186.	301.	94.	32.	378.
) Chemical & fertilizer mineral min.	820.	429.	104.	231.	11a.	71. 67.	55. 24.	85.	35.	4.	300
) New construction, Net	0.	0.	Q.	0.	0.	0.	0.	14.	8.	i.	24.
2) Maintenance & repair construction	11589.	9404.	771.	124.	466.	286.	122.	179.	0. 61.	0. 15.	0.
) Ordnance and accessories	843.	194.	214.	64.	84.	232.	35.	8.	2.	1.	160. 9.
) Food & kindred products	7765.	5517.	918.	145.	402.	310.	91.	108.	120.	9.	165
Tobacco manufactures	261.	170.	42.	4.	12.	14.	5.	5.	3.	ó.	7.
5) Fabrics, yarn & thread mills	14629.	12577.	722.	268.	366.	375.	80.	70.	48.	17.	106
7) Misc. textile goods & floor cover	2842. 1361	1884.	483.	51.	130.	119.	24.	42.	21.	5.	84
8) Apparel 9) Misc. fabricated textile products	1261. 1750.	824. 1302.	215.	22.	57.	61.	19.	15.	12.	1.	35.
0) Lumber, wood prod. exc. containers	11811.	3265.	268. 5417.	15. 135.	67.	46.	13.	14.	8.	. 3.	24.
st immest was brode ever policitiers		*****	37670	135.	323.	394.	326.	380.	185.	4 10.	1366.

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TABLE 20: INDIRECT OUTPUTS OF EXPERIMENTAL ECONOMY I (By Final Demand Components) - (Cont'

					14	marono,						
_		,						1.0	S&L	S&L		•
	•		200	COD	T1777	מעם	שמת	FGP	EDUC	HWS	S&LS	S&LP
	INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	rur	PUUC	Uus	, סממס	Odni
			4,						•	, ,	e.	, ,
21)	Wooden containers	515.	360.	68.	14.	36.	18.	1.	5.	3.	1.	10.
	Household furniture	851.	178.	396.	17.	25.	97.	30.	16.	11.	1.	79.
	Other furniture, fixtures; Net	393.	63.	196.	5.	11.	17.	11.	46.	5.	2.	38.
	Paper, allied prod. exc containers, Net	10145.	6873.	1262.	224.	510.	400.	180.	287.	103.	21.	286.
	Paperboard containers, boxes	5894.	4312.	618.	118.	313.	219.	82.	79.	50.	8.	96.
	Printing & publishing, Net	1572.	1078	155.	22.	61.	64.	32.	46.	18.	, 4.	42.
27)	Chemicals, select Chem products, Net	17350.	11350.	2088.	516.	1530.	193.	152.	294.	177.	29.	420.
	Plastics; synthetic materials	7649.	5163.	939.	215.	492.	384.	110.	109.	56.	17.	163.
	Drugs, Cleaning, Toilet preparations	3437.	2787.	184.	36.	121. :	101.	. 50.	20.	94.	· 4.	40.
	Paints & allied products	2754.	1271.	122.	40.	125.	128.	65.	101.	30.	7	264.
31	Petroleum refining & related ind's	13019.	7562.	2363.	252.	971.	624.	204.	273.	124.	21.	624.
	Rubber & misc plastics products	10339.	6112.	2155.	188	590.	497.	173.	200.	95.	l6.	314.
33) Leather tanning, ind. leather prods.	1066.	996.	26.	9.	14.	11.	3.	2.	1.	1.	4.
34	Footwear & other leather products	423.	344.	32.	4.	12.	14.	4.	2.	3.	1.	_6.
) Glass & glass products	3210.	2123.	508.	4B.	150.	-143.	52.	75. /	26.	7.	78.
36) Stone & clay products	10335.	1714.	5507.	78.	234•	280.	295.	617.	182.	31.	1395.
37) Primary iron & steel manufacturing	29753.	9820	11563.	717.	2384.	2156.	7 29 •	696.	216.	49.	1423.
, 38) Primary nonferrous metal manufacturing	18880.	54.24°£,∂	J. 7109.	527.	1368.	1818.	512.	874./	151.	-51.	988.
39) Metal containers	3307.	2696.	178.	62.	155.	71.	33.	33/	28.	4.	46.
40		10797.	1312.	6089.	54.	170.	257.	320.	778.	194.	39.	1584.
41) Stamping, screw mach. prods & bolts	8318	4085.	2300.	157.	569.	657.	171.	122.	41.	17.	197
) Other fabricated metal products	10312.	4152.	3386.	209.	619.	701.	248.	3/02.	93.	21 •	580.
) Engines and turbines	1898.	551.	846.	65.	171.	140.	35.	22	9.	.3.	56. 13.
44) Farm machinery & equipment	753.	425.	155.	25.	88.	35.	-3.	8.	4'a	1. 3.	82.
) Const., mining & oil field machs.	1592.	571.	585.	44.	125.	93.	38.	/ 35. / 78.	15. 14.	4.	101.
) Materials handling mach & equipment	1079.	265.	475.	15.	ec.	40.	26. 113.	66.	20.	6.	100.
47) Metalworking mach & equipment	3857.	1364.	1231.	. 135.	367. 101.	456. 59.	20.	15.	7.	i.	25.
) Spec ind mach & equipment, Net	1128.	630.	238.	32.	_	35 l.	94.	79.	26.	ï.	152.
49) General ind mach & equipment	4546.	1380.	1851. 977.	150. 142.	456. 300.	516.	119.	55.	16.	6.	90.
50) Machine shop products	3486.	1264.	0.	0.	0	0.	0.	0.	0.	0 .	0.
) Office comp & accounting machines	0.	837.	837.	16.	88.	78.	51.	118.	26.	8.	166.
) Service industry machines	2227. 4708.	1478.	1384.	129.	396.	325.	107.	147.	35.	10.	198.
) Electind equip & apparatus, Net	1412.	552.	507.	27.	79.	68.	27.	47.	12.	3.	91.
	Household appliances	3099.	841.	1360.	36.	128.	153.	86.	162.	39.	9.	285.
55	i) Electric lighting & wiring equip.		0.	0.	0.	0.	0.	0.	0.	0.	1 0	'O.
) Radio, television & comm. equip	0.	0.	٠٠ ٢٠	0.	Ů.	o.	ů.	0.	0.	0.	Ō.
) Electronic components & access.	J. 1732.	879.	468.	32.	127.	112.	26.	29.	8.	1 4.	46.
) Misc elec machinery, Net	4141.	2408.	858.	89.	253.	271.	75.	62.	23.	7.	94.
27) Motor vehicles & equipment) Aircraft and parts	2885.	727.	477.	•	704.	1000.	334.	31.	9.	4.	. 38.
61)) Aircraft and parts 1) Other transportation equipment	912.	425.	229.	21,	94.	70.	15.	20.	7.	1.	29.
01) Scientific & controlling instru.	704.	502.	80.	10.	29.	32.	11.	7.	25.	1.	8.
) Optical, ophthalmic&photo equip, Net	95.	48.	23.	7.	7.	8.	2.	2.	٦.	' O.	۲.
) Misc manufacturing, Net	2162.	1581.	260.	28.	65.	84.	32.	26.	21.	4.	61.
69	i) Transportation & warehousing	29356.	.7462.	5892.	573.	1514.	1247.	503.	611.	280.	. 51.	1223.
66	5) Comm. exc radiosTV broadcasting	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
67	7) Radio & TV broadcasting	Ö.	0.	0.	. 0.	0.	· 0.	. 0.	. 0.	0.	0.	Ç.
65	H) Electric, gas, water & sanitary svcs	17366.	11519.	2509.	342.	1010.	· 789.	323.	250.	190.	25.	407.
. 69) Wholesale & retail trade, Net	32496.	17057	7974.	600.	1711.	. 1522.	606.	. 859.	351.	63.	1754.
71)) Finance & insurance, Net	496.	396.	44.	5.	16.	13.	. 5.	7.	. 3.	1.	9.
71	1) Real estate & rental, Net	22936.	16330.	27 35.	421.	1206.	8941	278.	337.	215.	33.	487.
7	2) Hotels:personalizep svcs exc auto, Net	3876.	2694.	508.	58.	167.	186.	66.	60.	46.	6.	86.
7	3) Business services, Net	1756.	4833.	1306.	157.	430.	403.	130.	147	" 72.	12.	266.
'n	4) (Research and Development)	0.	0.	0.	0.	Ó.	′ 0.	0.	0.	0.	0.	0.
	5) Automobile repair & services	6468	4374. 1	1025.	67.	309.	243.	88.	109.	55.	11.	187.
	6) Amusements, Not	652.	470-	78.	7.	28.	25.	.10.	11.	5.	1.	15.
7	7) Medical, educ svcs&non-profit org, Net	921.	752.	59.	8.	22.	28.	20.	9.	. 8.	i.	12.
	• • •				•					1		

TABLE 20: INDIRECT OUTPUTS OF EXPERIMENTAL ECONOMY I (By Final Demand Components) - (Cont'd)

INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	S&LS	S&LP
78) Federal govt enterprises, Net 79) State & local govt enterprises 80) Imports 81) Business travel, entertainment & gift 82) Office supplies	2883. 8480. 23898. 231240.	2337. 6428. 13004. 7126.	233. 696. 4923. 1869.	23. 83. 724. 188. 0.	87. 362. 2019. 536. 0.	66. 290. 1500. 633.	25. 85. 379. 226.	44. 264. 466. 205. 0.	17. 64. 167. 118. 0.	4. 17. 40. 18. 0.	46. 192. 676. 321. 0.
							ě.	•	ð		
TOTAL NON-INFORMATION TOTAL INFORMATION TOTAL	'511849. 138126. 649975.	298376. 89589. 387965.	105497. 21336. 126832.	10240. 2349. 12589.	28672. 6520. 35192.	24661. 7566. 32228.	8766. 2623. 11388.	10953. 2730. 13684.	4529. 1314. 5843.	889. 235. 1124.	19266. 3866. 23131.

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INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	S&LS	S&L
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	S. C.						
INFORMATION INDUSTRIES			1		,	T)					
[1*] Info buildings: office,education,com	nm19.	.0.	0.	0.	0.	-19.	. 0-	0. 0.	0.	0. 0.	0. 0.
(2*) Maintenance & repair on info building	ngs . 52.	123.	0. 0.	Ç. O.	0. 0.	-11. -7.	0. 0.	0. 0.	0.	ų. 0.	0.
3*) Office furniture & equipment	-5. 39.	2. 84.	0.	0.	0.	-44.	0.	0.	0.	Ď.	Ů.
(4) Paper: printing (exc boxes)	202.	408	û.	0.	õ.	-206.	. 0.	0.	0.	0.	Ó.
26*) Printing & publishing 27*) Ink	3.	7.	0.	0.	0.	-4.	0.	0.	0.	0.	, 0,
()-) Ink (B*) Printing & paper machinery	-0.	2.	.0.	0.	0.	-3.	. 0.	. 0.	0.	. 0.	.0.
1*) Computers, calculators, office equip.	-58.	19.	0.	0•	G.	-17.	0.	0.	0.,	0.	0.
3°) Electronic measuring instruments	-56.	3.	٠ 0.	0.	0.	-61.	G.	0.	0.	0.	0.
6*) Radio, TV, comm'n equipment	-1112.	136.	0.	0.	0.	-1249	0.	' O.	0.	0.	0
7*) Electronic components	-447.	60.	0.	v.	C.	-5074	0.	0.	0.	0.	0
(8*) Misc electronic instruments	-2.	l.	0.	0.	0.	-3.	0.	0.	0.). 0.	0. 0
2*) Mech measuring & control instrument	s -145.	30.	0.	0.	0.	-175. -105	0. 0.	0. 0.	0.	0.	0
3*) Photographic & related equipment	-53.	52.	0.	0.	0.	-105. -15.	0.	0.	0.	0.	0
4*) Advertising signs & displays	11.	26. 403.	0. 0.	. 0.	0. 0.	-204.	0.	0.	0.	Ď.	Ŏ
6*) Telecommunications, exc. radio 4 TV	199.	403. 59.	0.	0.	0.	-41.	o.	0.	Ö.	0.	Ö
7*) Radio, TV, CATV	17. 383.	508.	0.	0.	0.	-125.	0.	0.	٥.	0.	Ŏ
9*) Trade margin on info goods	1065.	1200.	0.	0.	0.	-135	0.	0.	0.	Ö.	Ō
0*) Pinance & insurance: components		527.	o.	0.	C.	-141.	. 0.	0.	o.	0.	0
1°) Real estate:fees,royalties,office r	entals 35.	39.	0.	0.	ō.	-4.	o.	0.	0,	0	
2*) Repair: radio & TV equipment	253.	859.	O.	0.	0.	-616.	0.	0.	0.	0.	ro
(3*) Misc business info services	58.	110.	0.	Ç.	0. •	-52.	0.	0.	0.	0	0
76*) Motion pictures (77*) Hedical, educational, nonprofit	435.	631.	0.	.0.	0.	-196.	0.	. O.	0.	0.	, 0
(8*) Postal service	27.	944	0.	0.,	٥.	-67.	٥.	. 0.	0.	0.	0
(2*) Office Supplies	4.	45.	. 0.	0.	0.	-41.	0.	0.	0.	. 0.	. 0
	,	1			, , .					b	
			,			, "					1.4
NON-INFORMATION INDUSTRIES	•		•	1						4	;
1	4		_		,	-45.	0.	0.	0.	0.	. 0
1) Livestock & products	759.	804.	0.	0.	٥.	-47.	0.	0.	0.	Ö.	ō
2) Other agricultural products	607.	653,	0.	0. 0.	0.		0.	0.	0.	0.	
3) Forestry and fishery products	21.	39.	0.			-7.	0.	Ŏ . .	0.	0.	(
4) Agr., Forest, Fish Services	52.	59. 15.	0. 0.	Q. D.	0.	-18.	0.	0.	0.	4 . 0.	0
5) Iron & ferroalloy ores mining	-3.	12.	0.	0.	0.	-45.	0.	. 0.	0.	0.	0
6) Nonferrous metal ores mining	-33	46.	0.	. 0.	0.	-38	0.	Q.	0.	0.	. 0
7) Coal mining	£. 119:	298	0.	Ŏ.	0.	-179.	0.	0. :	0.	0.	(
8) Crude petroleum and natural gas	147.	18.	0.	0.	0.	-17.	0.	0.	0.	0.	(
9) Stone & clay mining & quarrying	-4.	125	0.	→ 0.	0.	-17-	. 0.	0.	o.	٥.	C
10) Chemical's fertilizer mineral min.	-176.	0.	0.	0.	0.	-176.	٥.,	0.	0.	0.	C
11) New construction, Net	-1.	266	0.	0.	, 0.	-267.	/ 0.	0.	0.	0.	(
12) Maintenance & repair construction	-14371	16.	0.	o.	0.	-1452.	/ 0.	0.	0.	0.	0
13) Ordnance and accessories	2255.	2384.	0. 9	0.	. 0.	-130•.	6.	(0.)	0.	0.	(
14) Food & kindred products	196.	169	0.	0.	0.	-3.	/ 0.	0.	0.	0.	$-\mathcal{Y}_0$
15) Tobacco manufactures	265.	381.	0.	0.	0.	-116.	/ 0.	0.	0.	0.	. (
16) Fabrics, yarn & thread mills17) Misc. textile goods & floor cover.	65.	97.	0.	0.	. 0.	-33.	/ ,0.	0.	0.	0.	. 9
	580.	620.	0.	0.	0.	-40•	0.	0.	. 0.	0.	. (
18) Apparel 19) Misc. fabricated textile products	18.	96.	0.5	0.	0. 0.	-78.	1 .0.	0.	Q.	0.	0
20) Lumber, wood prod. exc. containers	-2.	103.	0.	. 0.	0.	-1 05.	0.	0•	0.	0.	0

INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L · EDUC	S&L HWS	S&LS	S&LP
) Wooden containers	1.	10.	0.	0.	0.	- 5.	0.	0.	٠,0	0.	0.
Nousehold furniture	90.	1119.	0.	0.	0.	-30.	0.	0.	O.	0.	0.
3) Other furniture, fixtures, Net	-3.	7.	0.	0.	0.	-10.	Ō.	0.	0.	0.	0.
) Paper, allied prod. exc containers, Net	132.	243.	. 0.	Ů.	0.	-111.	Ô.	ů.	0.	0.	Ö.
5) Paperboard containers, boxes	63.	124.	0.	0.	· 0.	-61.	C.	0.	0.	0.	0.
6) Printing & publishing, Net	9.	32.	0.	Ô.	Q.	-23.	'0.	.0.	Q.	0.	. 0.
7) Chemicals, select Chem products, Net	-184.	339.	0.)	·″ 0	0.	-524.	0.	0.	0.	ů.	0.
B) Plastics, synthetic materials	37.	146.	0	0.	0.	-110.	0.	0.	0.	0.	0.
9) Drugs, Cleaning, Toilet preparations	253.	304.	0.	Ö.	.0.	-51.	0.	. 0.	Ō.	. 0.	' O.
0) Paints & allied products	5.	37. 4		. 0.	0.	-33.	0.	0.	0.	0.	0.
1) Petroleum refininging related ind's	176.	535.	٥.	0.	0.	-360.	0.	0.	0.	0.	Ô.
2) Rubber & misc plastics products	43.	242.	0.	\ 0.	0.	-199.	0.	. 0.	0.	Ō.	0.
3) Leather tanning, ind. leather prods.	24.	28.	0.	· 0.	0.2	-4.	0.	0.	o.	٥.	٥.
4) Footwear & Other leather products	113.	119.	0.	` O.	√6-	-6.	0.	0.	0.	0.	0.
	32.	70.	0.	0.	70.	-38.	Ö.	0.	Ö.	. 0.	0.
5) Glass & glass products	-19.	56.	0.	0.	. 0.	-75.	0.	ŷ.	0.	0.	0.
6) Stone & clay products			0.	0.	0.	-612.	0.	O.		0.	^
7) Primary iron & steel manufacturing	-335.	278.				-467.		ชี.	0.		۸ .
8) Primary nonferrous metal manufacturing	~313.	154.	0.	U.	0.		0.		0.	0.	. V•
9) Metal containers	56.	76.	, 0.	0.	.0.	-20.	.0.	٠0.	0.	0.	Ų.
0) Heating, plumbing & struc metal prods.	-62.	39. '	0.	0.	0.	-101.	0.	0.	0.	. 0.	0.
1) Stamping, screw mach, prods & bolts	-60.	127.	٥.	٥.	0.	-187.	0.	0.	٥.	0.	0.
2) Other fabricated metal products	-82.	141.	0.	0.	C.	-223.	. 0.	' Q.	0.	0.	0.
3) Engines and turbines	-94	20.	0.	0.	. 0.	-115.	0.	0.	٥.	0.	0.
4) Farm machinery & equipment	-l.	13.	0.	0.	Ą 0.	-14.	. 0.	0.	0.	0.	0.
5) Const., mining & oil field machs.	-70.	16.	0.	0.	\ ∙0.	-86.	٠.	٥.	0.	0.	0.
6) Materials handling mach & equipment	-20.	7.	. : 0.	0.	· · / 0	-21.	0.	0.	٠٥.	0.	· 0.
7) Metalworking mach & equipment	-98.	41.	, O.	0.	0.	-139.	. 0.	0.	0.	0.	0.
8) Spec ind mach & equipment, Net	-1.	18.	ì 0.	0.	, 0,	-20.	0.	0.	0.	٠0.	0.
9) General ind mach & equipment	-101.	39.	0.	0.	0.	-140.	. 0.	. 0.	A 0.	0.,	0.
0) Machine shop products	-114.4	36.	\ O.	0.	0.	-150.	0.	0.	(`0, `	اب 0 سأ	0.
1) Office comp & accounting machines		0_	0.	0_			0_	<u> </u>	/ 6}- -	0.	0.
2) Service industry machines	4.	36.	10.	0.	ì.	-40.	Ò.	0.	0.	0.	0.
3) Elec ind equip & apparatus, Not	-142.	. 43.	\0.	0.	i.	-184.	0.	٥.	0.	٥.	0.
4) Household appliances	101.	120.	6.	. 0.	Ĝ,	-19.	` 0.	0.	\ 0.	Ů.	. 0.
	-5.	441.	b.	0.	o.	-46.	Ö.	0.	\0.	. 0.	0.
5) Electric lighting & wiring equip.	0.	ð.	γ.	0.	0	0.	0.	0.	0.	0.	0.
6) Radio, television & comm. equip	0.	0.	76	ŏ.\	0.5	0.	0.	0.	ίφ.	0.	0.
7) Electronic components & access.			0.1			-68.	. Q.	0.	0.	Ů.	4
(8) Misc, elec machinery, Net	-24.	44.	1	0.	0.3						۷۰
9) Motor vehicles & equipment	407.	712.	0.\	0.	0.	-305.	.' 0.	0.	0.	. 0.	0.
0) Aircraft and parts	-2228.	22.	0. \	0.	0.	-2250.	0.	0.	0.	0.	. 0.
1) Other transportation equipment	-255	45.	0.	0.	٥. ز	-300.	0.	0.	0.	0.	0.
2) Scientific & controlling instru.	-10.	20.	0.	/ 0.	· 0.	-30.	0.	0.	0.	.0.	` , 0.
(3) Optical, ophthalmic(photo equip, Net	6. ,	11.	. 0.	1 0.	. 0.	ξ -5.	0.	0.	0.	· · 0.	0.
54) Misc manufacturing, Net	143.	176.	, 0,	1) 0.	0.	-33.	٥.	٥.	0.	0.	¹ Q.
55) Transportation & warehousing	-120.	867.	0.	1 0.	Ç.	i -987.	0.	٥.	0.	0.	0.
66) Comm. exc radio&TV broadcasting	0.	٥.	0.	'\ 0.	Ç.	. 0.	0.	· · · 0.	0.	0.	0.
57) Radio & TV broadcasting	0.	0.	0.	-\ C.	. 0.	0.	0.	0.	0.	0.	0.
50) Electric, gas, water & sanitary svcs	564.	835.	0.	0.	0.	-271.	0.	o.	0.	0.	0.
59) Wholesale & retail trade, Net	2778.	3346.	0.	\ 0.	a.	÷568•	0.	0.	0.	0.	0.
	28•	31.	0.	\ 0.	.0.	-3.	0.	. 0.	0.	0.	o.
70) Finance & insurance, Net				\ 0.		240	0.	0.	. 0.	0.	0.
71) Real estate & rental, Net	2101.	2341.	0.,	1 7	0.		_				0.
72) Hotels:personalirep svcs exc auto, Net	355.	504.	0	\ C•.	0,	-151.	0.	0.	0.	, . O.	
73) Business services, Net	-75.	150.~	_	\ 0.	0.	-224•	0.	Ģ.	0.	0.	. 0.
74) (Research and Development)	0.	٠, ٨, ٥٠	0.	\ 0.	0.	0.	0.	0.	0.	0.	0.
75) Automobile repair & services	288.	360.	Q.	\ 0.	0.	- 12.	0.	0.	` D.	0.	0.
76) Amusements, Net	105	139.	0.	0.	٠٥.	-25	0.	0.	٥.	. 0.	0. 0.
77) Medical, educ svcs&non-profit org, Net	580.	624.			3.	-4 <u>*</u> .		0.	0.	0.	

TABLE 21: TOTAL NET OUTPUT IMPACT OF EXPERIMENT I (By Final Demand Components) - (Cont'd)

				,		and the second of		S&L	S&L		
INDUSTRIES	TFD	PCE ·	GCF	INV	EXP	DEF	FGP	EDUC	HWS	S&LS	SeLP
78) Pederal govt enterprises, Net 79) State & local govt enterprises 80) Imports 81) Business travel, entertainment & gifts 82) Office supplies	47. 135. -296. 43. 0.	71. 209. 654. 201.	0. 0. 0.	0. 0. 0. 8.	0. 0. 0. 0.	-24. -74. -950. -158. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.
	. 5				'			• .			
TOTAL NON-INFORMATION TOTAL INFORMATION TOTAL	7294. 1267. 8564.	21135. 5438. 26573.	0. 0. 0.	0. 0. 0.	0. 0. 0.	-13839. -4171. -18010.	0. 0.	0. 0. 0.	0. 0. 0.	0. 0.	0. 0.

TABLE 22: DIRECT NET OUTPUT IMPACT OF EXPERIMENT I (By Final Demand Components)

(\$ MILLIONS, 1967) S&L S&L INDUSTRIES TFD PCE GCF INV EXP DEF FGP EDUC HWS S&LS S&LP INFORMATION INDUSTRIES 11*) Info buildings: office, education, comm. -19. -19. 12") Maintenance & repair on info buildings 0. ٥. 23*) Office furniture & equipment -2, 0. -2. ٥. 244) Paper: printing (exc boxes) 2. ٥. 264) Printing & publishing 102. 134. ٥. -33. ٥. 27°) Ink ٥. 0. ٥. ٥. 48*) Printing & paper machinery -2. ٥. -2. ٥. 51*) Computers, calculators, office equip. -52. -56. -43. 53*) Electronic measuring instruments 0. -43. 56*) Radio, TV, comm'n equipment -1001. -1115. ٥. 57*) Electronic components -140. 6. 0. -146. ٥. 58*), Misc electronic instruments -2. 0. -2. -91. -104. 62*1 Mech measuring & control instruments -73. 63*) Photographic & related equipment -50. 22. 64*) Advertising signs 4 displays Ó. 6. -0. 6. 66*) Telecommunications, exc. radio & TV -82. 148. 230. ٥. 67*) Radio, TV, CATV. 0. ٥. 69*) Trade margin on info goods 350. 396. -46. ٥. 871. 876. 70*) Pinance & insurance: components 71*) Real estate: fees, royalties, office rentals 224. 234. .0. -10. 72*) Repair: radio & TV equipment 32. 32. ٥. ٠0. -0: 0. 73*) Misc business info services 129. -139. ٥. -26B. ٥. 76°) Motion pictures 77. -23. 0. 0. 77*) Medical, educational, nonprofit 421. 601. -181. ٥. ٥. 78#) Postal service > 31. -37. 0. ٥, 82*) Office Supplies -20. NON-INFORMATION INDUSTRIES 1) Livestock & products 68. 2) Other agricultural products 115. 117. 3) Forestry and fishery products 12. 13. 4) Agr., Forest, Fish Services -.2: 5) Iron & ferroalloy ores mining 14. 14. 6) Nonferrous metal ores mining -13. -13. 7) Coal mining 8) Crude petroleum and natural gas ٠ ٥. 0. 9) Stone & clay mining & quarrying ٥. 0. - 10) Chemical & fertilizer mineral min. · 0. ٥. ٥. 11) New construction, Net -176. -176. 12) Maintenance & repair construction - 195. ٥, -195. 13) Ordnance and accession 14) Food 6 kindred products 13) Ordnance and accessories , 2 -1384. 10. -1394. 2176. 2228. -52. 194. 194. 0. 16) Fabrics, yarn & thread mills 4. 26. ٥, 1 -22. ٥. 17) Misc. textile goods & floor cover. 41. 44. ٥. 0. ٥. 18) Apparel 572 597. ٥. -24. ٥. 0. (19) Misc. fabricated textile products -7. 59. ٥. -66.

10.

20) Lumber, wood prod. exc. containers

				/T	HHTOND	(
INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	SELS	S&LP
1) Wooden containers	-4.	0.	0.	0.	- 0.	4.	0.	0.	0.	0.	0.
2) Household furniture	109.	114.	0.	0.	C.	-5.	0.	0.	0.	0.	0.
3) Other furniture, fixtures, Net	-1.	5.	0.	J.	0.	-6.	0.	0.	Q.	0.	∙∙0•
4) Paper, allied prod Pexc containers, Net	38.	49.	0.	. 0.	. 0.	-11.	0.	0.	0.	0.	0.
5) Paperboard containers, boxes	-4.	2.	0.	C.	0.	-6,	٠ 0.	٥.	0.	0.	. 0.
6) Printing & publishing, Net	-6.	i.	0.	ů.	Ċ.	-7.	0.	0.	0.	0.	0.
7) Chemicals, select Chem products, Net	-307.	19	0.	· 0.	0.	-325.	Ô.	. O.	0.	· 0.	. 0.
8) Plastics, synthetic materials	-13.	1.	ů. ·	0.	0.	-14:	Q.	Ō.	0.	0.	٥.
9) Drugs, Cleaning, Toilet preparations.	199.	225.	0.	0.	0.	-26.	0.	0.	.0.	0.	0.
0) Paints & allied products	, 1.	₹.	0.	0.	. 0.	-1.	Oa -	0.	0.	0.	0.
1) Petroleum refining & related ind's	118.	322.	0.	ō.	0.	.(−204•	Ö.	0.	0.	0.	. 0.
2) Rubber & misc plastics products	-5.	70.	0.	0.	0.	-75.	ů.	Ŏ.	O.	0.	0.
(2) Kunder & misc bidstics bidances	-1.	0.	o.	0.	0.	-1.	0.	0,	0.	Q,	. 0.
3) Let ther tanning, ind. leather prods.	107	109.	0.	0.	Ċ.	-3.	.0.	0.	o.	0.	0.
4) Fortwear & other leather products	` ^ .a.	10.	0.	n.	. 0.	-2.	0.	0.	O.	0.	0.
(5) Glass & glass products			0.	0.	0.	-5.	٠٥.	Ö.	Ŏ.	0.	Ŏ.
6) Stone & clay products	3,	8.	0.	0.	0.	-73.	0.	o.	0.	0.	. 0.
7) Primary iron & steel manufacturing	-73.	0.	0.	0.	. 0.	-13.	". 0.	0.	0.	0.	n.
8) Primary nonferrous metal manufacturing	-12.	7 J.			.0.	-3.	0.	0	0.	0.	0.
9) Metal containers	3.	0.	0.	0.	.0.	-37	, At	0.	0.	0.	. 0.
0) Heating, plumbing & struc metal prods.	-35.	2.	0.	0.			V.	•		0.	, Us
1) Stamping, screw mach. prods & bolts	-11.	11.	0.	0.	0.	-22.	۷.	0.	0.	0.	٥.
2) Other fabricated metal products	-24.	24.	0.	0.	0.	-48.	0.	0.	0.		. 4
J) Engines and turbines	-75.	5.	0.	0.	٥.	-80.	0.	0.	0.	0.	0.
4) Farm machinery & equipment	4.	1.	0.	0.	0.	-5.	0.	0.	0.	νo. 0•	۷.
5) Const., mining & oil field machs.	-63.	0.	0.	0.	0.	-63.	0.	٥.	0.	Ϋ́0.	0.
6) Materials handling mach & equipment	-17.	o.	0.	0.	. 0.	-17.	, 0.	0.	0.	0.	0.
(7) Metalworking mach & equipment	-22.	3.	0.	0.	0.	-25.	0.	0.	0.	0.	0.
(8) Spec ind mach & equipment, Net	:-4.	1.	0.	0.	0.	-5.	0.	0.	0.	0.	٥.
(9) General ind mach & equipment	- 53.	0.	0.	0.	0.	-53.	0.	0.	0.	0.	0.
50) Machine shop products	-21.	0.	0.	0.	0.	-21.	0.	٥. ٠	0.	0.	0.
51) Office comp & accounting machines	0.	.0.	0.	0.	, O.	0.	Q.	0.	٥.	0.	∙ 0.
2) Service industry machines	-8.	. 13.	0.	. 0.	0.	-21.	´ Q.	٦.	0.	0.	0.
3) Elec ind equip & apparatus, Net	-102.	1.	0.	0.	· 0.	-103.	0.	0.	0.	0.	0.
54) Household appliances	103.	1 05.	0	·0.	0.	-2.	0.	0.	0.	0.	0.
is) Electric lighting & wiring equip.	10	17.	0.	0.	" 0,	-7.	0.	0.	0.	٥.	0.
of patie television t comm again	0. :	0.	.0.	· 0.	0.	0.	0.	0.	0.	· 0.	0.
6) Radio, television & comm. eguip	0.	0.	0.	Ō.	C.	. 0.	0,	0.	0.	0.1	0.
7) Electronic components & access.	-20.	19.	0,	0.	0.	-40.	. 0.	0.	0.	0.	0.
8, Misc elec machinery, Net	407.	644.	ů.	0.	0.	-237.	" 0 .	0.	0.	0.	0.
9) Hotor vehicles & equipment	-1999.	- 2.	Ö.	Ô.	0.	-2000.	0.	0.	01	0.	. ű,
60) hircraft and parts		33.	. 0.	0.	G.	-282.	0.	. 0.	0.	10.	. 0.
1) Other transportation equipment	-249		0.	o.	0.	-22.	Ö.	0.	0.	. 0.	0.
62) Scientific & controlling instru.	-16.	5.			0.	-3.	0.	0.	0.	0.	, O.
3) Optical, ophthalmicsphoto equip, Net	1.	10.	0.	0.		-12.	0.	o.	Q.	υ` 0.	0.
54) Misc manufacturing, Net	117.	· 132.	0.	0.	0.		_ '	0.	. Ö.	. 0.	0.
55) Transportation & warehousing	-302.	373.	0.	0.	0.	-675.	0.			0.	0.
ii) Comm. exc radio(TV broadcasting	∜ 0.	0.	0.	٥.	0.	,Q. ~	0.	0.	· 0.	0.	0.
(7) Radio & TV broadcasting ;	, 0.	٥٠,	0.,	0.	· 0.	0.	0.	0.	0.		0.
8) Electric, gas, water & sanitary svcs	435.	510:	0.	0.	Q.	-14.	0.	0:	. 0.	0.	
9) Wholesale & retail trade, Net	2676.	2864.	0.	0.	0.	-187.	Q.	.C.	0.	D.	.0.
71) Finance & insurance, Net	20.	20.	. 0.	0:	0.	0.	0.	0.	0.	0,	0.
71\ Real estate & rental, Net	1863.	1880.	0.	0.	0.	-17.	10.	١ ٥.	0,	0.	0,
77. Notels:personalfrep svcs exc auto, Net	325.	430	0.	0.	0.	-105.	` O•	0. _;	0.	0.0	
71) Business services, Net	-110.	13.	0.	D.	. 0.	-124.	0.	0.	0.	0.	. 0.
13) Distress services, wet	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	Q.
74) (Research and Development)	225.	236.	0.	o.	, 0.	-11.	0.	0.	. 0.	. 0.	. C.
75) Automobile repair & services	98.	116.	,	.0.	8 0.	-18.	0,	. 0.	0.	0.	0.
76) Amusements, Net 77) Medical, educ sycsinon-profit org, Net	'566 ·	603.	0.	0.	0.	-37.	· .	0,		# 0.	0.
	100 •	0034	ve	ve	7.5						

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TABLE 22: DIRECT NET OUTPUT IMPACT OF EXPERIMENT I (By Final Demand Components) - (Cont'd)

INDUSTRIES	r	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	S&LS	S&LP
78) Federal govt ent 79) State & local go 80) Imports 81) Business travel, 82) Office supplies	orprises, Net wt enterprises entertainment & gift	-3. 26. -288. 5 0.	5. 26. 287. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0.	-1. -575.	0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0.	0. 0. 0. 0.
TOTAL NON-INFORM TOTAL INPORMATIO TOTAL		5030. 628. 5658.	12705. 2907. 15612.	0. 0.	0. 0.	0. 0. 0.	-7674. -2279. -9953.	0. 0. 0.	0. .0. .0.	0. 0. 0.	0. 0. 0.	0. 0. 0.

			. /	(\$ 1	MILLION	S, 196	7)				
INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	S&LS	S&LE
	المستدر التمريج	,			1/						
NFORMATION INDUSTRIES			J	,	ų		,	. ,		:	
WIORMATION INDUSTRIES			7			_	,		i		
1*) Info buildings: office,education	,comm. 0.	0.	0.	0.	. 0.	D.	0.	. 0.	0.	0.	0.
2*) Maintenance & repair on info bui	ldings 52.	123.	0.	0.	0.	-71.	0.	0. 0.	0. 0.	0. 0.	0.
23*) Office furniture & equipment	-3.	2.	, • 0•	0.	0.	-5. -41.	0. 0.	0.	0.	0.	0.
(4) Paper: printing (exc boxes)	' 41.	82.	0.	0.	0.	-172	0.	0.	0.	0.	Ö.
6*) Printing & publishing	100.	274.	0.	0.	0.	-173.	0.	0.	0.	0.	0.
?7*) Ink	3.	7.	/ 0.	0.	0.	4,	D.	0.	. 0.	0.,	. 0.
(8*) Printing & paper machinery	1.	2.	, 0.	0.	0.	-1,	0.	0.	0.	0.	0.
51*) Computers, calculators, office equ	ip6.	15.	0.	0.	0.	-21.		0.	0.	0.	0.
53*) Electronic measuring instruments	-15.	3.	0.	0.	0.	-18.	. O.	٥.	0.	0.	0.
56*) Radio, TV, comm'n equipment	-111.	22.	0.	0	0.)	-133.		0.	ů.	0.	0
57*) Electronic components	-308.	54.	. 0.	0.	0.	-362.	0.	0.	0.	0.	Ö.
58*) Misc plectronic instruments	0.	1/.	0.	0.	0.	-1.	0.	0.	0.	0.	0.
62*) Mech measuring & control instrum	ents -54.	17:	0.	0.	0•,	-71.	0.	0.	0.	0.	. 0.
63*) Photographic & related equipment	-3.	30.	0.	0.	0.	-32.	0.	0.	0.	0.	Ö
(4*) Advertising signs & displays		20.	0+	, 0.	. 0.	- 15.	0.		, 0.	0.	Ó
(6*) Telecommunications, exc. radio (TV 51.	173.	0.	0,	0.	-122	0.	0.	•	0.	` 0.
67*) Radio, TV, CATV	17.	59.	. 0.	0.	0.	-41.	,0.	0.	0.	0.	0.
59* Trade margin on info goods	33.	112	0.	0.	0.	-79.	٥.	0.	0.	0.	0.
70*) Finance & insurance: components	193.	324.	0.	0.	0.	-131.	0.	0.	0.		0
71*) Real estate:fees,royalties,offic	e rentals (162.	294.	0.	0.	Ç.	-132.	0.	0.	0.	. 0.	0
72*) kepair: radio & TV equipment	3.	/ 7.	. 0•	0.	0.	-4.	0.	0.	0.	-	Ö
73*) Hisc business info services	392.	740.	0.	0.	0.	-348.	0.	0.	0.	0.	0.
76*) Motion pictures	13.	32.	0.	0.	0.	-19.	0.	07	0.	0.	0
77*) Medical, educational, nonprofit	.14.	30.	. 0.	0.	.0.	-16.	0.	0.	0. 0.	0.	0.
78*) Postal service	34.	64.	, Or	. 0.	0.	-30.	., 0.	0.	. 0.	. 0.	0.
82*) Office Supplies	24.	45.	0.	0.	0.	-21.	0.	0.	. 44	V.	; .
				•	• .					. e	
	, ,	'					1.1			•	
NO.1-INFORMATION INDUSTRIES	·										
MON-INFORMATION AND/STRIES							•	.*	7		•
	,	•		4.0						۸	
1) Livestock & products	692.	736.	0.).	0	-44.	0. '	U.	۷.	. 0.) 0. 0.
2) Other agricultural products	492.	.537.	0.	. 0.	٥.	-45,	0.	0.	. 0.	0.	. 0
3) Forestry and fishery products	¥5.	25.	.0•	0	.0.	-10.	0	0.	0.	0.	. 0
4) Agr., Forest, Fish Services	50.	. 55.	0•	0.	0.	, -5.	0. ·	0.	0.	0.	
5) Iron & ferroalloy ores mining	-17.	15.	. 0.	. 0.	0.	-32.	·o:	0.	0.	0.	. 0.
6) Nonferrous metal ores mining	· -/19.	. 12.	0.	· C.	0.	-31.4		0.	0.	0.	
7) Coal mining	/ /12.	42.	0.	0.	0.	-29.	0.	. 0.	, 0.	0.	0
8) Crude petroleum and natural gas	/ /119.	298.	0.	0.	0.	-179.	0.	0.	0.	0.	, 0
9) Stone & clay mining & quarrying	/ · D.	18.	0.	. 0.	0.	-18,	0.	0.	0.	0.	0
10) Chemical & fertilizer mineral mi	ຫ5.	12.	.0•	0.	0.	-17.	0.	0	0.	0.	.0
11) New construction, Net	0.	0.	. d ₁	0.	0.	0.	0.	0.	0.	0.	0
12) Maintenance & repair construction	n / 194.	266.	0.	0.	0.	-71.	0.,	0.	0,	0.	. 0
13) Oronance and accessories	-52.	5.	0.	0.	C.	-50.	0.	0.	٥.	0.	0
14) Food & kindred products	/ 79.	156.	0.	0.	0.	-78.	0.	0.	0.	0.	. 0
15) Tobacco manufactures	1.	5.	0.	0.	0.	3.	0.	0.	0.	04	0
16) Fabrics, yarn & thread mills	. / 262.	355.	0.	0.	. 0.	-94.	0.	0.	. 0.	0.	0
	1		0.	0.	0.	-30.	· 0.	0.	0.	0.	0
17) Misc. textile goods & floor cove	8.	23.	0.	0.	0.	-15.	0.	0.	0.	0.	' 0
18) Apparel		37.	1.0.	0.	0.	-12.	. Q.	0.	0:	0.	0
19) Misc. fabricated textile product 20) Lumber, wood prod. exc. contained		92.	0.	0.	C.	-99.	0.	0.,	· 0.	0.	0
ZUI LUMDET, WOOD DIOG. EXC. CONTAINE	279			• •	• • • • • • • • • • • • • • • • • • • •						

INDUSTRIES	}	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L EDUC	S&L	S&LS	S&LP
- 1949 - 1949 - 1949 <u>- 1</u>	4	i ·										
) Wooden contai		-6.	10.	0.	0.	0.	-5.	0.	0.	0.	0.	٥.
) Household fur		-19,	5.	0.	0.	0.	-24.	0. '	0.	0.	0.	0.
Other furnitu	re, fixtures, Net	-2.	2.	0.	, 0.	0.	-4.	0.	0.	0.	0.	0.
, Paper, allied	prod. exc containers, Net	94.	194.	, 0.	. 0.	0.	-100.	. 0.	0.	٥.	0.	0.
	ntainers, boxes		122.	0.	0.	0.	-55.	0.	0.	0.	0. 4,	0.
	blishing, Net	15.	30.	0.	0.	. 0.	-16.	0.	. 0.	0.	٥.	o.
Chemicals, se	lect Chem products, Net	127.	321.	0.	0. •	0.	-198.	0.	0.	0.	٥.	0.
Plastics, syr	thetic materials	50.	146.	0.	0.	0.	-96.	0.	Ď.	0.	0.	n.
Drugs, Cleani	ng, Toilet preparations	53.	79.	o.	0.	0.	-25.	0.	ō.	0.	0.	0.
Paints & alli		4.	36.	0.	ō.	ō.	-32.	. 0.	٥.	٨	0.	
	ining & related ind's	58.	214.	ű.	0.	0.	-156.	0.		٥.		0.
	plastics products	. 48.	173.	0.	0.		-124.		0.	0.	0.	0.
	ng, ind. leather prods.	25.	28.	.0.	-	0.		0.	0.	0.	0.	0.
		. 6.			0.	0.	-3.	0.	0.	0. '	0.	0.
	her leather products		10.	0.	0.	0.	-4.	0.	0.	0.	0.	0.
Glass & glass		24.	60.	0.	0.	Ç.	-36.	0.	0.	O.	0.	0.
Stone & clay		-22.	48.	0.	0.	. 0.	-70.	0.	0.	0.	0.	Û.
rrimary iron	& steel manufacturing	-262.	277.	0.	0.	0.	-535.	. 0.	0.	0.	0.	0.
Primary nonfe	rrous metal manufacturing	-301.	153.	. 0.	0.	٠0.	-454.	' O.	0.	`0 .	0.	0.
Metal contain		58.	76.	0.	0.	. 0.	-18.	٥.	′ O•	0.	0.	. 0.
Heating, plur	bing & struc metal prods.	-27.	37.	0.	0.	0.	-64.	0.	0.	0.	o.	0.
Stamping, scre	w mach, prods & bolts	-49.	115.	0.	0.	C.	-164.	٥.	0.	0.	0.	ā.
Other fabrica	ited metal products	-58.	117:	0.	r.	ũ.	-175.	0.	. 0.	0.	0.	D.
Engines and t		-19	16.	0.	o.	ō.	-35.	0.	0.	0.	0.	
	y & equipment	3.	12.	0.	0.	0.	-9.		•			0.
	ng & oil field machs,	-7 .	l6.				-23.	0.	0	0.	0.	0
Astonials par	ndling mach & equipment		7.	0.	۰0,	0.		0.	0.	0.	0.	0.
		-3.		0.	0.	٥.	-10.	0.	0.	0.	0.	0.
	mach & equipment	-76.	39.	0.	0.	0.	-114.	0.	0.	٥. ,	û.	0.
	& equipment, Net	3.	18.	0	0.	0.	-15.	0. ,	. 0.	٥.	٥.	0.
	wich & equipment	-49.	39.	0.	٥.	0.	-88.	0.,	0.	0.	0.	0.
Machine shop	products	-93.	36.	0.	. 0.	Ů.	-129.	٥.	0.	9.	0.	0.
	accounting machines	0.	0.	. 0.	0.	0.	<u> </u>	0.	0.	٥.	0:-	Q.
. Service indus	try machines	4.	24.	0.	٥.	· 0.	-19.	0.	ΰ.	0.	0.	0.
Elec ind equi	p & : paratus, Net	-39.	. 42.	9.	0.	Ú.	-Bl.	· 0.	0.	' D.	0.	Ö.
Household app	pliances	-2.	16.	0.	0.	٠ 0.	-17.	0.	0.	0	0.	0.
Electric ligh	nting & wiring equip.	-15.	243	ø.	. 0.	0.	-38.	0.	0.	0.	0.	0.
	ision & comm. equip	0.	٥.	ċ.	0.	0.	0.	0.	0.	O.	Ď.	0.
	omponents & access.	0.	Õ.	. 0.	0.		0.	0.	0.	0.	Q.	0.
Wide also as	Mipolicits a access.		25.	0.	0.	٥.	- 28 .	0.	0.			. ^
Misc elec mad		-3.				-				Û,	٥.	. 4.
	es & equipment	0.	£3	0.	0.	0.	-68.	0.	· 0.	0.	٥.	0,
Aircraft and		-229.	₹1.•	0.	0.	0.	-250.	0.	0.	0.	0.	. 0.
Other transpo	ortation equipment	- 5.	12.	0.	0.	! - 0.	-17-	0.4	0.	0.	0.	0.
Scientific &	controlling instru.	- 6 .	14.	0.	0.	· 0.	-8.	0.	0.	O.,	0.	0.
Optical, oph	thalmicaphoto equip, Net	-1.	1.	0.	. 0.	0.	-2.	0.	Q . .	0.	0.	0.
Misc manufac	turing, Net	24.	- 45.	0.	0.	0.	-21.	0.	0.	0.	0.	0.
Transportation	on & warehousing	182,	493.	0.	0.	v.	-312.	0.	0.	0.	0.	0.
Comm. exc ra	dioSTV broadcasting	0.	. 0.	0.	Q.	0.	0.	0.	0.	0.	0.	Ċ.
Radio & TV b		O.	0.	0.	ű.	ů.	0.	0.	0.	O.	0.	0.
	water & sanitary sycs	120.	325.	0.	. 0.	0.	-197.	0.	Ö.	0.	0.	0.
			482.	0.	0.	0.	-380	0.	1	0.	0.	0.
	retail trade, Net	102.							0.			
Pinance & in		β.	11.	0-	0,	0.	-3.	. 0.	0.,	0.	0.	0.
Real estate		238.	461.	٥.	0.	0.	-22/:	0.	0./	, 0.	0.	0.
	nalarep svcs exc auto, Net	30.	76.	. 0.	. 0.	0.	-46.	0.	0.	. 0.	0.	0.
Business ser		36.	137.	0.	0.	0.	-101.	0.	0.	0.	C.	٥.
(Research an	d Development)	0.	. 0.	0.	0.	· 0.	· 0. '	0.	, 0.	0.	0.	,0.
	epair & services	63.	124.	0.	0.	0.	-6l.	e.	· 0.	0.	٥.	0.
) Amusemenis,		7.	13.	0.	0.	0.	-6.	0.	Q.	O.	0.	0.
	svcsinon-profit org, Net	. • •		,			• •		/ 0.			/ 0.

TABLE 23: INDIRECT NET OUTPUT IMPACT OF EXPERIMENT I (By Final Demand Components) - (Cont'd)

INDUSTRIES	TFD	PCE	GCF	INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	S&LS	SŁLP	
78) Federal govt enterprises, Net 79) State & local govt enterprises 80) Imports 81) Business travel, entertainment & gi 82) Office supplies	49. 109. -7. fts 43.	66. 182. 367. 201. 0.	0. 0. 0. 0.	0. 0. 0. 0.	(0. 0. 0. \ 0. \	-17. -72. -375. -150.	0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0.	0. 0. 0. 0.	
	1 1	·	1									
TOTAL NON-INFORMATION TOTAL INFORMATION TOTAL	2265. 640 2905.	8431. 2531. 10962.	0. 0.	0. 0. 0.	0. 0. 0.	-6165 -1892 -8057	0. 0. 0.	0.	0. 0. 0.	0. 0.	On On On Sport	

TABLE 24: FINAL DEMAND COMPONENTS OF EXPERIMENTAL ECONOMY II

Industries	mph.	non.	COB	73117	תעה	Den	non.	S&L	Sel	0	0
TUDOSTATES	TFD	PCE	GCF	INV	EXP	DEF	FGP	EDUC	HWS	SELS	S&LP
FORMATION INDUSTRIES		•		•2		- ,				<u>.</u> .	٠
) Info buildings: office, education, comm.	17855.	, 0.~	11348.	0	15.	94.	225.	5430.	٠ 0.	266.	477.
*) Maintenance 4 repair on info buildings	1424.	.0.	.0.	0.	· /0′•	, 0.	186.	764.	150.	71.	252.,
*) Office furniture & equipment	1592.	0.	1298.	20.	$^{\prime\prime}$, Π_{ullet}	12.	32.	161.	4.	. 1.	547
) Paper: printing (exc boxes)	366.	50.	0,	107.	82.	15.	271	10.	16.	3.	29.
Printing & publishing	5599.	4072.	0.	274.	244.	144.	32.	715.	11.	3.	105.
) Ink	/ 17.	0.	0.	5. *	10.	0.	l.	i.	0.	0.	0.
) Printing & paper machinery	1397.	o,	1226.	35.	114.	8.	9.	. 6.	0.	0.	٠0.
) Computers, calculators, office equip.	8375	112.	6704.	155.	710.	242.	291.	118.	10.	l.	31.
) Electronic measuring instruments	17]5.	9.	1258.	20.	166.	208.	50.	2.	0.	ļ.	9.
) Radio, TV, comm'n equipment	16658. 1453.	3646. 171.	5874. 37.	600. 139.	580. 372.	5179. 617.	657.	. 93.	3.	14.	11.
) Electronic components	328.	0.	267.	7.	29.	9.) 33. 2.	4. 2.	. 12.	8. 0.	
) Misc electronic instruments) Mech measuring & control instruments.	2815.	415.	1229.	78.	461.	479.	83.	۰ ۱7.	34.	4.	15.
		713.	.1840		313.	340.	70.	65.	56.	4.	16.
	`758.	204.	483.	18.	35.	1.	1.	23.	0.	-8.	i.
) Advertising signs 4 displays) Telecommunications, exc. radio 6 TV	11186.	7837.	2191.	. 0.	140.	405	138.	136.	44.	43.	253.
) Radio, TV, CATV	7,	0.	Q.	0.	. 0.	0.	0.	7.	0.	' 0.	0.
) Trade margin on info goods	16567.	13531	2028	101.	516.	230.	50.	25.	41.	12.	31 .
) Finance & insurance: components	25117.	24596	ξ.	-l.	90.	17.	36.	172.	39.	7.	151
Real estate: fires, royalties; office renta		7842.	1556.	Ö.	214.	48.	60.	62.	40.	9.	118.
Repair: radio & TV equipment	1112.	1105.	0.	0.	0.	1.	-0.	ž.	3.	1.	1,0,
Misc business info services	7471	4142.	0.	0.	408.	1254.	586.	430.	286.	66.	300
) Motion pictures	2154.	1744.	0.	a -57 .	322.	109.	5.	24.	. 0.	2.	4.
) Medical, educational, nonprofit	23027.	20629.	0.	0.	0.	901.	1000.	101.	323. '	32.	y 41
) Postal service	1499.	1 053.	0.	ŷ.	14.	107.	46.	23.	- 65.	9.	101
) Office Supplies	470.	0.	0.	0.	0.	99.	17.	143.	30.	14.	107
in the Thirty of the Paris of t			٠.					*			
	1							e'			4
N-INFORMATION INDUSTRIES	,							v'	· , ·		
l) Livestock & products	2014.	1611.	0.	′ 129 .	55.	5.	•	1.	10.	1.	2.
) Livestock & products) Other agricultural products	2019. 584	1611. 3756.	0.	/ 129. 1031.	55. 3184.	5, 7,		l. 16.	10.	1.	
l) Livestock & products l) Other agricultural products l) Forestry and fishery products			•-		3184.		\$. -1202. -259.	l. 16. 1.	10. 9. 2.	4.	43.
) Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Forest, Fish Services	584	3756. 449.	, C.	1031.	3184. : 47.	. 1,	-1202.	l6. l.	9. 2.	1.	43a 1a
) Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Porest, Pish Services) Iron & ferroalloy ores mining	584 249	3756.	, 0. 0.	1031.	3184.	` 7 . 5.	-1202. -259.	16.	9.	4.	43. 1. 5.
Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Porest, Fish Services) Iron & ferroalloy ores mining) Monferrous metal ores mining	584 249. 184.	3756. 449. 136.	. 0. 0. 0.	1031. · 2. 0.	3184. 2 47. 14.	7, 5. - 10.	-1202. -259. 1.	l6. l. l6.	9. 2. 1.	4, 1. 1.	43. 1. 5. 0.
) Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Porest, Pish Services) Iron & ferroalloy ores mining) Monferrous metal ores mining) Coal mining	58. 249. 184. 82.	3756. 449. 136. 0.	0. 0. 0.	1031. 2. 0. 25.	3184. 47. 14. 122.	7. 5. 10. -65.	-1202. -259. 1. -0.	16. 1. 16. 0.	9. 2. 1. 0.	1. 1. 0.	43. 1. 5 0
Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Forest, Fish Services) Iron & ferroalloy ores mining) Nonferrous metal ores mining) Coal mining] Crude petroleum and natural gas	584 249. 184. 62. 173. 618. 339.	3756. 449. 136. 0.	0. 0. 0. 0.	1031. 2. 0. 25. 12. 125. 257.	3184. 47. 14. 122. 35.	7, 5. 10. -65. 58.	-1202. -259. 1. -0. 67.	16. 16. 0. 0.	9. 2. 1. 0.	4. 1. 1. 0.	43. 1. 5. 0.
Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Forest, Fish Services) Iron & ferroalloy ores mining) Nonferrous metal ores mining) Coal mining) Crude petroleum and natural gas) Stone & clay mining & quarrying	58. 249. 184. 82. 173. 618.	3756. 449. 136. 0. 0.	0. 0. 0. 0.	1031. 2. 0. 25. 12.	3184. 47. 14. 122. 35. 306. 82. 83.	7. 5. 10. -65. 58. 36.	-1202. -259. 1. -0. 67.	16. 16. 0. 0.	9. 2. 1. 0. 0.	4. 1. 1. 0. 0.	43. 1. 5. 0. 0.
Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Forest, Fish Services) Iron & ferroalloy ores mining) Nonferrous metal ores mining) Coal mining) Crude petroleum and natural gas) Stone & clay mining & quarrying) Chemical & fertilizer mineral min.	584 249. 184. 62. 173. 618. 339.	3756. 449. 136. 0. 121. 0.	0. 0. 0. 0. 0.	1031. 2. 0. 25. 12. 125. 257.	3184. 47. 14. 122. 35. 306. 82.	7. 5. 10. -65. 58. 36.	-1202. -259. 1. -0. 67. 7.	16. 16. 0. 0. 15.	9. 2. 1. 0. 0. 1.	4. 1. 0. 0.	43. 1. 5. 0. 14. 0.
) Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Porest, Pish Services) Iron & ferroalloy ores mining) Monferrous metal ores mining) Coal mining) Crude petroleum and natural gas) Stone & clay mining & quarrying) Chemical & fertilizer mineral min.) New construction, Net	58. 249. 184. 82. 173. 618. 339.	3756. 449. 136. 0. 0. 121. 0.	0. 0. 0. 0. 0.	1031. 2. 0. 25. 12. 125. 257. 12.	3184. 47. 14. 122. 35. 306. 82. 83.	7. 5. 10. -65. 58. 36. 0.	-1202. -259. 1. -0. 67. 7. 0. -1.	16. 16. 0. 0. 15. 0.	9. 2. 1. 0. 0. 1. 0.	1. 1. 0. 0. 1. 0.	43. 1. 5. 0. 0. 4. 0. -46.
Livestock & products Other agricultural products Forestry and fishery products Agr., Porest, Pish Services I ron & ferroalloy ores mining Nonferrous metal ores mining Coal mining Crude petroleum and natural gas Stone & clay mining & quarrying Chemical & fertilizer mineral min. New construction, Net Maintenance & repair construction	584 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271.	3756. 449. 136. 0. 121. 0. 4.	0. 0. 0. 0. 0.	1031. 2. 0. 25. 12. 125. 257. 12.	3184. 47. 14. 122. 35. 306. 82. 83. 148.	7, 5. 10. -65. 58. 36. 0. -1.	-1202. -259. 1. -0. 67. 7. 0. -1.	16. 16. 0. 0. 15. 0.	9. 2. 1. 0. 0. 1. 0. 0.	4. 1. 0. 0. 1. 0.	43. 1. 5. 0. 0. 46. 31 13434
Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Forest, Fish Services) Iron & ferroalloy ores mining) Nonferrous metal ores mining) Coal mining) Crude petroleum and natural gas) Stone & clay mining & quarrying) Chemical & fertilizer mineral min.) New construction, Net) Maintenance & repair construction) Ordnance and accessories	584 249. 184. 82. 173. 618. 339. 51. 189. 58111.	3756. 449. 136. 0. 121. 0. 4. 2.	0. 0. 0. 0. 0. 0.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0.	3184. 47. 14. 122. 35. 306. 82. 83. 148.	7. 5. 10. -65. 58. 36. 0. -1. -0.	-1202. -259. 1. -0. 67. 7. 0. -1. 0. 2275.	16. 10. 10. 0. 15. 0. 0. 746.	9. 2. 1. 0. 0. 0. 0. 0.	4. 1. 0. 0. 1. 0. 0.	43. 1. 5. 0. 14. 0. -46. 31 13434. 2997.
Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Porest, Pish Services) Iron & ferroalloy ores mining) Monferrous metal ores mining) Coal mining) Crude petroleum and natural gas) Stone & clay mining & quarrying) Chemical & fertilizer mineral min.) New construction, Net) Maintenance & repair construction) Ordnance and accessories) Food & kindred products	584 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0.	0. 0. 0. 0. 0. 0. 0. 39067.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0.	7. 5. 10. -65. 58. 36. 0. -1. -0. 881. 973.	-1202. -259. 1. -0. 67. 7. 0. -1. 0. 2275. 294.	16. 10. 10. 0. 15. 0. 0. 746.	9. 2. 1. 0. 0. 1. 0. 0. 0. 170%.	4. 1. 0. 0. 0. 0. 0.	43. 1. 5. 0. 0. -46. 31 13434. 2997.
Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Forest, Fish Services) Iron & ferroalloy ores mining) Nonferrous metal ores mining) Coal mining) Crude petroleum and natural gas) Stone & clay mining & quarrying) Chemical & fertilizer mineral min.) New construction, Net) Maintenance & repair construction) Ordnance and accessories) Food & kindred products) Tobacco manufactures	\$84 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271. 9071.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0. 0. 322. 60974. 5270.	0. 0. 0. 0. 0. 0. 0. 0. 2.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147.	3184. 47. 14. 122. 35. 306. 62. 63. 146. 0. 0.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432.	-1202. -259. 1. -0. 67. 7. 0. -1. 0. 2275. 294. 1834.	16. 1. 16. 0. 0. 15. 0. 0. 7.	9. 2. 1. 0. 0. 0. 0. 0.	4. 1. 0. 0. 0. 0. 0.	43. 1. 5. 0. 0. -46. 31 13434. 2997. 0.
Livestock & products) Other agricultural products) Forestry and fishery products) Agr., Forest, Fish Services) Iron & ferroalloy ores mining) Nonferrous metal ores mining) Coal mining) Crude petroleum and natural gas) Stone & clay mining & quarrying) Chemical & fertilizer mineral min.) New construction, Net) Maintenance & repair construction) Ordnance and accessories) Food & kindred products) Tobacco manufactures) Pabrics, yarn & thread mills	\$84 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271. 9071. 64911. 6059. 1058.	3756. 449. 136. 0. 121. 0. 4. 2. 0. 0. 322. 60974. 5270.	0. 0. 0. 0. 0. 0. 0. 0. 20.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147. 899.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0. 0. 309. 1906.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432.	-1202. -259. 1. -0. 67. 7. 0. -1. 0. 2275. 294. 1834. 448.	16. 1. 16. 0. 0. 15. 0. 0. 746. 7. 0.	9. 2. 1. 0. 0. 0. 0. 0. 170r.	4. 1. 0. 0. 0. 0. 0. 0. 7.	43. 0. 0. -46. 31. 13434. 2997. 0.
Livestock & products Other agricultural products Forestry and fishery products Agr., Forest, Fish Services I ron & ferroalloy ores mining Honferrous metal ores mining Coal mining Crude petroleum and natural gas Stone & clay mining & quarrying Chemical & fertilizer mineral min. Hew construction, Net Maintenance & repair construction Ordnance and accessories Food & kindred products Tobacco manufactures Pabrics, yarn & thread milks Misc. textile goods & floor cover.	\$84 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271. 9071. 64911. 6059. 1058. 1693.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0. 0. 322. 60974. 5270.	0. 0. 0. 0. 0. 0. 0. 20. 0.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147. 899. 114. 107.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0. 0. 309. 1906. 601. 250.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432. 206. 0. 73.	-1202. -259. 1. -0. 67. 7. 0. -1. 0. 2275. 294. 1834. 448. 0.	16. 1. 16. 0. 0. 15. 0. 0. 746. 7. 0.	9. 2. 1. 0. 0. 0. 0. 170%.	4. 1. 0. 0. 0. 0. 0. 0. 7. 73.	43. 1. 5. 0. 0. -46. 31. 13434. 2997. 0. 63.
Livestock & products Other agricultural products Forestry and fishery products Agr., Forest, Fish Services I ron & ferroalloy ores mining Nonferrous metal ores mining Coal mining Crude petroleum and natural gas Stone & clay mining & quarrying Chemical & fertilizer mineral min. New construction, Net Maintenance & repair construction Ordnance and accessories Food & kindred products Tobacco manufactures Fabrics, yarn & thread mills Misc. textile goods & floor cover. Apparel	584 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271. 9071. 64911. 6059. 1058. 1693. 16867.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0. 322. 60974. 5270. 592. 1405. / 16246.	0. 0. 0. 0. 0. 0. 0. 20. 0.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147. 899. 114. 107. 281.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0. 0. 309. 1906. 601. 250. 89.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432. 206. 0. 73. 14.	-1202. -259. 1. -0. 67. 7. 0. -1. 0. 2275. 294. 1834. 448. 0. 1. 6. 31.	16. 1. 16. 0. 0. 15. 0. 7. 0. 68. 0.	9. 2. 1. 0. 0. 0. 0. 170%. 0, 0.	4. 1. 0. 0. 0. 0. 0. 0. 7. 73.	43. 1. 5. 0. -46. 31. 13434. 2997. 0. 63.
Livestock & products Other agricultural products Forestry and fishery products Agr., Forest, Fish Services From & ferroalloy ores mining Nonferrous metal ores mining Coal mining Crude petroleum and natural gas Stone & clay mining & quarrying Chemical & fertilizer mineral min. New construction, Net Maintenance & repair construction Ordnance and accessories Food & kindred products Tobacco manufactures Pabrics, yarn & thread mills Misc. textile goods & floor cover. Apparel Misc. fabricated textile products	584 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271. 9071. 64911. 6059. 1058. 1693. 16867. 2459.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0. 0. 322. 60974. 5270.	0. 0. 0. 0. 0. 0. 0. 20. 0. 11. 0.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147. 899. 114. 107.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0. 0. 309. 1906. 601. 250.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432. 206. 0. 73. 14. 96.	-1202. -259. 1. -0. 67. 7. 0. -1. 0. 2275. 294. 1834. 448. 0. 1. 6. 31. 13.	16. 10. 10. 10. 15. 10. 17. 10. 10. 10. 10. 10. 10. 10. 10	9. 2. 1. 0. 0. 0. 0. 170°. 0, 0. 273. 0.	4. 1. 0. 0. 0. 0. 0. 0. 7. 73. -1.	43- 1- 5- 0, 0, -46- 31- 13434- 2997. 0, 63- 0, 1- 0, 2- 1- 0,
Livestock & products Other agricultural products Forestry and fishery products Agr., Forest, Fish Services Iron & ferroalloy ores mining Nonferrous metal ores mining Coal mining Crude petroleum and natural gas Stone & clay mining & quarrying Chemical & fertilizer mineral min. New construction, Net Maintenance & repair construction Ordnance and accessories Food & kindred products Tobacco manufactures Pabrics, yarn & thread milks Misc. textile goods & floor cover. Apparel Misc. fabricated textile products Lumber, wood prod. exc. containers	584 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271. 9071. 64911. 6059. 1058. 1693. 16867.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0. 322. 60974. 5270. 592. 1405. / 16246. 1983. 258.	0. 0. 0. 0. 0. 0. 0. 20. 0. 11. 0. 5.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147. 899. 114. 107. 281.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0. 0. 309. 1906. 601. 250. 89.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432. 206. 0. 73. 14.	-1202. -259. 1. -0. 67. 7. 0. -1. 0. 2275. 294. 1834. 448. 0. 1. 6. 31.	16. 10. 10. 10. 15. 10. 17. 10. 10. 10. 10. 10. 10. 10. 10	9. 2. 1. 0. 0. 0. 0. 170%. 0, 0. 273. 0.	4. 1. 0. 0. 0. 0. 0. 0. 7. 73. -1.	43- 1- 5- 0, 0, -46- 31- 13434- 2997. 0, 63- 0, 1- 0, 2- 5-
Livestock & products Other agricultural products Forestry and fishery products Agr., Forest, Fish Services I ron & ferroalloy ores mining Nonferrous metal ores mining Coal mining Crude petroleum and natural gas Stone & clay mining & quarrying Chemical & fertilizer mineral min. New construction, Net Maintenance & repair construction Ordnance and accessories Food & kindred products Tobacco manufactures Fabrics, yarn & thread mills Misc. textile goods & floor cover. Apparel Misc. fabricated textile products Lumber, wood prod. exc. containers Nooden containers	584 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271. 9071. 64911. 6059. 1058. 1693. 16867. 2459. 766.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0. 322. 60974. 5270. 592. 1405. / 16246. 1983. 258. 0.	0. 0. 0. 0. 0. 0. 0. 20. 0. 11. 0. 0.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147. 899. 114. 107. 281. 49. 121. 2.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0. 0. 309. 1906. 601. 250. 89. 169. 74.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432. 206. 0. 73. 14. 96.	-1202. -259. 1. -0. 67. 7. 0. -1. 0. 2275. 294. 1834. 448. 0. 1. 6. 31. 13.	16. 10. 10. 10. 15. 10. 16. 17. 10. 10. 10. 10. 10. 10. 10. 10	9. 2. 1. 0. 0. 0. 0. 170°. 0. 273. 0.	4. 1. 0. 0. 0. 0. 0. 0. 7. 73. -1. 1. -26.	43. 1. 5. 0. 0. -46. 31. 13434. 2997. 0. 63. 0.
Livestock & products Other agricultural products Forestry and fishery products Agr., Forest, Fish Services I ron & ferroalloy ores mining Nonferrous metal ores mining Coal mining Crude petroleum and natural gas Stone & clay mining & quarrying Chemical & fertilizer mineral min. New construction, Net Maintenance & repair construction Ordnance and accessories Food & kindred products Tobacco manufactures Fabrics, yarn & thread mills Misc. textile goods & floor cover, Apparel Misc. fabricated textile products Lumber, wood prod. exc. containers Household furniture	\$84 249. 184. 82. 173. 618. 339. 51. 189. 5811. 4271. 9071. 64911. 6059. 1058. 1693. 16867. 2459. 766. 30. 4151.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0. 322. 60974. 5270. 592. 1405. / 16246. 1983. 258.	0. 0. 0. 0. 0. 0. 0. 20. 0. 11. 0. 5.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147. 899. 114. 107. 281. 49. 121.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0. 0. 309. 1906. 601. 250. 89. 169. 74.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432. 206. 0. 73. 14. 96. 323.	-1202259. 10. 67. 7. 01. 0. 2275. 294. 1834. 448. 0. 1. 6. 31. 13.	16. 10. 10. 10. 10. 15. 10. 10. 15. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	9. 2. 1. 0. 0. 0. 0. 170%. 0. 273. 0. 17. 0.	4. 1. 0. 0. 0. 0. 0. 0. 7. 73. -1. 1. -28.	43. 1. 5. 0. 0. -46. 31. 13434. 2997. 0. 63. 0.
Livestock & products Other agricultural products Forestry and fishery products Agr., Forest, Fish Services Iron & ferroalloy ores mining Nonferrous metal ores mining Coal mining Crude petroleum and natural gas Stone & clay mining & quarrying Chemical & fertilizer mineral min. New construction, Net Maintenance & repair construction Ordnance and accessories Food & kindred products Tobacco manufactures Fabrics, yarn & thread milks Misc. textile goods & floor cover. Apparel Misc. fabricated textile products Lumber, wood prod. exc. containers Household furniture Other furniture, fixtures, Net	584 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271. 9071. 64911. 6059. 1058. 16867. 2459. 766. 30. 4151. 1114.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0. 322. 60974. 5270. 592. 1405. / 16246. 1983. 258. 0.	0. 0. 0. 0. 0. 0. 0. 20. 0. 11. 0. 132.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147. 899. 114. 107. 281. 49. 121. 2. 49.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0. 0. 309. 1906. 601. 250. 89. 169. 74. 367. 3. 24.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432. 206. 0. 73. 14. 96. 323. 22.	-1202259. 10. 67. 7. 01. 0. 2275. 294. 1834. 448. 0. 1. 6. 31. 13.	16. 10. 10. 10. 15. 10. 16. 17. 10. 10. 10. 10. 10. 10. 10. 10	9. 2. 1. 0. 0. 0. 0. 170°. 0. 273. 0. 11. 12. 0.	4. 1. 0. 0. 0. 0. 0. 7. 73. -1. 1. -1. 26. -5. 0.	43. 1. 5. 0. 0. -46. 31. 13434. 2997. 0. 63. 0. 2. 5. 0.
N-INFORMATION INDUSTRIES Livestock & products Other agricultural products Forestry and fishery products Agr., Forest, Fish Services Inon & ferroalloy ores mining Nonferrous metal ores mining Crude petroleum and natural gas Stone & clay mining & quarrying Chemical & fertilizer mineral min. New construction, Net Maintenance & repair construction Ordnance and accessories Food & kindred products Tobacco manufactures Fabrics, yarn & thread miles Misc. textile goods & floor cover, Apparel Misc. fabricated textile products Lumber, wood prod. exc. containers Wooden containers Household furniture, fixtures, Net Paper, allied prod. exc containers, Net	584 249. 184. 82. 173. 618. 339. 51. 189. 58111. 4271. 9071. 64911. 6059. 1058. 16867. 2459. 766. 30. 4151. 1114.	3756. 449. 136. 0. 0. 121. 0. 4. 2. 0. 322. 60974. 5270. 592. 1405. / 16246. 1983. 258. 0. 3861.	0. 0. 0. 0. 0. 0. 0. 20. 0. 11. 0. 132.	1031. 2. 0. 25. 12. 125. 257. 12. 8. 0. 0. 147. 899. 114. 107. 281. 49. 121. 2.	3184. 47. 14. 122. 35. 306. 82. 83. 148. 0. 0. 309. 1906. 601. 250. 89. 169. 74. 367. 3.	7, 5. 10. -65. 58. 36. 0. -1. -0. 881. 973. 6432. 206. 0. 73. 14. 96. 323. 22. 21.	-1202259. 10. 67. 7. 01. 0. 2275. 294. 1834. 448. 0. 1. 6. 31. 13. 3. 30. 18.	16. 10. 10. 10. 10. 15. 10. 10. 15. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	9. 2. 1. 0. 0. 0. 170r. 0, 0. 273. 0. 11. 12. 0. 0. 2.	4. 1. 0. 0. 0. 0. 0. 0. 7. 73. -1. 1. -1. 28. -5. 0.	2. 43. 1. 5. 0. 046. 31. 13434. 2997. 0. 63. 0. 1. 0. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

TUNUCANTO	TFD	PCE	GCF ·	INV	EXP	DEF	FGP	S&L EDUC	S&L HWS	SELS	S&LP
INDUSTRIES	مكم تصمد عمرات	4-14-14-1		23.	8.	36.	17.	5.	Ž.	1.	22.
Printing & publishing, Net	161. 4367.	67. 504.	0.	300.	1700.	1286.	464.	13.	31.	2.	65.
) Chemicals, select Chem products, Nat	179.	18.	0.	26.	67G.	65.	0.	0.	0	0.	0.
) Plastics, synthetic materials			0.	221.	435.	121.	71.	145.	359.	5.	19.
) Drugs, Cleaning, Toilet prepirations	8669.	7293. 52.		54.	47.	3.	1.	1.	Ž.	-2.	1.
)) Paints & allied products	160.		0.	541.	765.	939.	139.	146.	34.	33.	79.
l) Petroleum refining & related ind's	12870.	10194.	٥.		323.	354.	37.	44.	41.	44.	43.
l) Rubber & misc plastics products	3323.	2769.	24.	142.	43.	5.	2.	0.	0.	o.	0.
3) Leather tanning, ind. leather prods.	43.	0.	0.	-6.			2.	0.	1.	ž.	0,
1) Pootwear & other leather products	3718.	3659.	` O.	21.	20.	14.			29.	ž.	0.
5) Glass & glass products	573.	317.	,0.	39.	145.	10.	6.	221.		1.	0.
5) Stone & clay products	588.	244	0.	127•	177.	23.	4.	9.	2.		0.
/) Primary iron & steel manufacturing	1328.	3.	0.	514.	518.	286.	٠,	0.	0.	2.	
the primary from a steel management of	1112.	15.	28.	336.	726.	42. '	-34.	0.	٥.	. 0.	D.
) Primary nonferrous metal manufacturing	97.	0.	8.	61.	16.	13.	0.	Q.	0.	. 0.	0.
9) Metal containers	1449.	46.	749.	128.	284.	179.	43.	٥٠,	0,	0.	0.
) Heating, plumbing & struc metal prods.	886.	374.	0.	86.	274.	108.	31.	23.	2.	-14.	1.
l) Stamping, screw mach. prods & bolts	1973.	174.	210.	198.	434.	. 226.	37.	27.	4.	- 3.	.5.
l) Other fabricated metal products	1607.	144.	590.	55.	393.	366.	49.	0.	0.	0.	9.
3) Engines and turbines			2362.	409	419.	25.	3.	9.	2.	3.	15.
) Farm machinery & equipment	3287.	38.			1269.	295.	13.	Ö.	1,1.	0.	. 46.
) Const., mining & oil field machs.	3641.	0.	1950.	58.		. 82.	17.	i.	0.	0.	0.
5) Materials handling mach & equipment	1157.	0.	889.	36.	132.			14.	2.	0.	1
7) Metalworking mach & equipment	3694.	87.	2779.	167.	486.	116.	36.			0.	
3) Spec ind mach & equipment, Net	2869.	22.	2081.	56.	677.	24.	5.	5.	0.		7.
	2503.	0.	1516.	125.	627	242.	60.	0.	0.	5.	
) General ind mach 6 equipment	335.	4.	4.	32.	. 63.	98.	₿.	108.	14.	0.	2.
) Machine shop products	0.	• 0.	0.	0.	0.	0.	0.	0.	0.	0. '	0.
l) Office comp & accounting machines	2506.	404.	1388.	126.	359.	96.	7.	105.	14.	2.	· 3.
2) Service industry machines	2942.	. 28r	1812.	112.	391.	471.	69.	16.	2.	0.	39.
3) Elec ind equip & apparatus, Net-	39 30 .	3538.	102.	102.	149.	11.	3.	13.	9.	۲.	0.
Household appliances	952	557.	53.	57.	169.	35.	13.	55.	2.	3.	7.
5) Electric lighting & wiring equip.				-			0.	0.	0.	0.	0.
6) Radio, television & comm. equip	0.	0.	0.	0. :	. 0.	. 0.			0.	0.	0.
7) Electronic components & access.	0.	· 0.	0.	0.	0.	0.	.0.	. 0.		3.	5.
	1071	626.	61.	28.	132.	187.	25.	2.	1.		
8) Misc elec machinery, Net	26490.	15822.	7269.	-310.	1976.	847.	155.	102.	27.	87.	435.
9) Motor vehicles & equipment	14327.	50.	1900.	1918.	1809.	7840.	809.	0.	0.	, 2.	0.
0) Aircraft and parts	5799.	1077.	2754.	196.	206.	1327.	220.	0,	Q.;	- 70.	6.
1) Other transportation equipment	980.	185	415.	31.	107.	107.	50.	7.	73.	2.	1.
[2] Scientific & controlling instru.		317.	0.	0.	8.	15.	4.	0.	2	0.	0.
3) Optical, ophthalmicaphoto equip, Net	347.			. 130	297.	57.	38.	118.	3.	-6.	32.
4) Misc manufacturing, Net	5118	4213.	234. 665.	228.	3891.	2994.	328.	632.	113.	39.	201.
5) Mansportation & warehousing	20490	11396.	****				νĝ	0.	0.	Q.	0.
6) Comm. exc radio&TV broadcasting	0.	0.	. 0.	0.	0.	0.			0.	Ŏ.	0.
7) Radio & TV broadcasting	0.	0.	0.	0.	٠, ٠	0.	. 0.	. 0.		1	393.
8) Electric, gas, water & sanitary svcs	15952.	13935.	0.	0.	75.	295.	49.	1054.	96.	56.	
Al Miccellandaner a name and a con-	104171.	95836.	4439.	407.	2098.	911.	205.	-113.	213.	47.	127.
9) Wholesale & retail trade, Net	705	672.	٥.	.0.	0.	0.	0.	0.	0.	0.	34.
0) Finance & insurance, Net	65 024	63027.	1061.	0.	363.	81.	103.	i06.	68.	16.	200.
1) Real estate & rental, Net	15053	14367	0.	0.	3.	.510.	105.	-161.	62.	23.	· 144.
2) Hotels:personal&rep svcs exc duto,Net	1817.	448.	٠ ٥.	0.	49.	612.	238.	. 201	84.	30.	155.
3) Business services, Net	_	0.	0.	Ö.	0.	Q.	0.	0.	0.	0.	0.
4) (Research and Development)	. J.			0.	0.	55.	9.	43.	20.	23.	- 68.
5) Automobile repair & services	8 28 5 .	8069.	0., 0	. 0,	9.	87.	-12.	-0.	. 0.	0.	-8.
6) Amusements, Net	390).	3827.	0.		0.	184.	141	37.	1913.	8.	26.
7) Medical, educ sycsinon-profit org, Net	22792•	20482.	0.	0.			10.		10.	i.	lt.
(8) Pederal govt enterprises, Net	342.	170.	0.	0.	92-	38.		13.	1.	· .	4.
9) State & local govt enterprises	1233.	925.	0.	0.	0.	6.	280.	_		. 0.	ž,
	-26526.	9870.	526.	-100.	-40791.	2877.;	1087.	0.	1.		0.
80) Imports	ø.	0.	. 0.	0.	0.	0.	9.	0.	0.	, 0.	
81) Business travel, entertainment & gifts 82) Office supplies	· . 0.	0.	. 0.	0.	0.	0.	0.	0.	0 .	0.	¸0 .
TOTAL	705213.	486717.	J 113362.	11998.	-4636.	44426.	12337.	12508.	6491.	1117.	20894

APPENDIX EIGHT

This appendix contains the following backup material to Chapter 8 of Volume 1:

- (i) A detailed breakdown of the Federal agencies and offices into primary, secondary and specialized information industries. The scheme was applied to the Federal budget on a line-by-line basis and resulted in the two tables shown in Chapter 89 (see Tables 25, 26 and 27).
- (ii) A brief description of how research and development is defined in the National Income Accounts (Table 28).

THE FEDERAL INFORMATION INDUSTRIES

The thousands of bureaus, offices and programs included in the Federal budget (Appendix) were organized conceptually into three categories:

- (i) Those which have direct analogs in the primary information sector, discussed in Chapter 3.
- (ii) Those which have direct analogs in the secondary information sector, discussed in Chapter 9.
- (iii) Those which are unique to the Federal Government.

Table 25 shows 17 Federal primary information industries that have direct SIC analogs. The entries underneath each major SIC industry are simply examples of the types of offices and programs that were included in our accounting scheme.

Table 26 shows the four secondary industries and examples. The "general administrative" categories were residual, containing all managerial costs that could not be explicitly apportioned elsewhere. A check back to Table 8.2 shows that these lump-sum allocations were quite small.

Table 27 shows the information industries special to governments.

RESEARCH AND DEVELOPMENT

There is considerable confusion in the accounts regarding what "research and development" (R&D) actually means, and in fairness to the reader, this definitional controversy should be aired briefly.



The National Science Foundation (NSF) gathers annual statistics on the performance of R&D by industries and governments. 10 The figure used in our accounts follows the NSF definition. The economic censuses, such as the Census of Manufacturing and Business, use somewhat different definitions. The Bureau of Economic Analysis uses yet a third definition.

Most of the difficulty is in identifying which parts of military and N.A.S.A. activities can be considered as R&D. For example, a space launch of an experimental communication satellite contains two elements -- R&D-type expenses associated with the satellite, and a production-line operation associated with the launch. NSF counts the entire activity as R&D on the assumption that all aspects of space exploration or uses of extraterrestrial technology are still experimental in nature.

The nation's R&D expenditures have been arranged in input-output format by the Bureau of Economic Analysis. The basic table employs NSF data, with some minor additions for State and local government R&D. Table 29 shows all R&D performance, whether conducted in-house or purchased from an outside vendor. The table shows that the Federal Government was a major source of funds for R&D, accounting for some \$14.5 billion of a total national expenditure of \$23.8 billion.

For purposes of computing the Federal R&D purchases from private industry, intramural purchases are deducted, leaving \$11.1 billion. Table 8.3 (in Chapter 8) shows Federal purchases as \$13.1 billion. The \$2 billion difference is explained by the different treatment used by NSF and BEA. Our number is drawn directly from the NSF's Federal Funds for Research; Development and Other Scientific Activities, Vol. XVII, p. 106.

Note that the largest R&D performer is the manufacturing sector, with \$15.3 billion in total R&D for 1967. Over half of this amount (\$7.9 billion) was internally financed. Both NSF and BEA are vague on their definitions of such R&D. For example, both the basic research associated with developing new technologies and routine product development are included.

Note also that private, state and local universities performed \$3 billion in R&D. However, a sizable portion of this amount was used in training graduate students, not in actual research.

Lastly, note that the Federal Government financed \$3.4 billion internally. This represents an enormous R&D establishment within the government, outpacing the combined revenues of private R&D and commercial labs by a 2:1 ratio.

The total R&D expenditures in 1967 were \$23.8 billion, of which slightly more than half (\$12.2 billion) was performed in-house.



EXAMPLES OF PRIMARY INDUSTRIES IN THE FEDERAL GOVERNMENT

SIC

27

60

Printing and Publishing

Government Printing Office DOD: Defense Mapping Agency HEW: American Printing House for the Blind Commerce: National Bureau of Standards; National Technical Information Service DOD: printing and reproduction

481,2 <u>Telephone and Telegraph Communication</u>

GSA: automated data and telecommunications system;
Federal Telecommunications System
DOD: Advanced Research Projects Agency: ARPANET,
AUTOVON
Civil Defense: warning and detection
DOD: procurement of telecommunications equipment;
allocated communications personnel
State: telecommunications (prorated)

Banking

Rederal Reserve Board (part)
Agriculture: Commodity Credity Corporation (subsidy management and administration)
Treasury: Bureau of the Public Debt; Office of Revenue Sharing
Interior: Bureau of Indian Affairs trust responsibilities
Subsidy management: Civil Aeronautics Board, Maritime Administration

61 Credit Agencies

Import-Export Bank Small Business Administration guaranteed loans (expenses) Agriculture: agricultural stabilization and conservation service Rural Electrification Administration Commodity Credit Corporation HUD: Federal Housing Administration Pederal National Mortgage Association DOD: family housing (loan fund)
HEW: health facilities guarantee and loan fund student loan insurance fund HUD: loan funds: low-rent public housing, college housing, housing for the elderly or handicapped, public facilities
Interior: Bureau of Reclamation (irrigation) loan fund VA: direct loan revolving fund, loan guarantee revolving fund See General: 1976 Budget of the United States . Government, Special Analyses, section E

63,4 Insurance Carriers, Brokers

Railroad Retirement Board: (operating expenses)
Agriculture: Federal Crop Insurance Corporation,
Rural Housing Insurance Fund,
Agricultural Credit Insurance Fund,
Rural Development Insurance Fund
HEW: Social Security Administration (operating expenses)

EXAMPLES OF PRIMARY INDUSTRIES IN THE FEDERAL GOVERNMENT - (Cont'd)

SIC

HUD: Federal Insurance Administration
Commerce: Maritime Administration war risk insurance
revolving fund
Labor: Manpower Administration grants to states for
unemployment insurance services
VA: veterans insurance and indemnities
Insurance against foreign expropriation of privatelyowned American assets

6531 Real Estate Agents, Brokers, and Managers

GSA: Public Building Service, Architect of the Capitol Interior: Bureau of Land Management land classification
HUD: housing management programs
Pederal Housing Administration
Real property activities and settlement costs
DOS: consulate, embassy, and headquarters upkeep
VA: management of properties secured by VA mortgages

7311 <u>Advertising Agencies</u>

Commerce: U.S. Travel Service '
DOD: Office of Information for the Armed Services
GSA: Consumer Information Center
Agriculture: Office of the Secretary information
services
HEW: Office of the Secretary public information
Military recruiting

7351,483 News Syndicates and Broadcasting

United States Information Agency
Corporation for Public Broadcasting
Board for International Broadcasting
DOD: Armed Forces Radio Network
HEW: Office of Education educational broadcasting
facilities and educational TV programming

7361 Employment Agencies

Civil Service Commission
Selective Service System
Equal Employment Opportunity Commission
Labor: U.S. Employment Service Manpower Administration grants to states for employment services

737 Data Processing Services

IRS: data processing services
HFW: National Institutes of Health data processing
services
Office of the Secretary data management services
DOD: procurement of computers
Allocated data processing personnel
Various agency computer centers: Census; Treasury;
Commerce; Congress; etc.

7391 Research and Development

National Science Foundation
Agriculture: Agricultural Résearch Service
DOD: Advanced Research Projects Agency,
Office of Naval Research
NEW: National Institutes of Health (part)
Interior: Office of Water (Resources)
Commerce: National Bureau of Standards telecommunications research

EXAMPLES OF PRIMARY INDUSTRIES IN THE FEDERAL GOVERNMENT - (Cont'd)

SIC

HUD: Office of the Secretary policy development and research
R & D: DOD; NASA; HUD Urban Mass Transit Agency; Energy Research and Development Agency. See generally, National Science Foundation Federal Funds for Research Development, and Other Scientific Activities, Vol. XVIII

7392

Management and Business Consulting Services

Office of Management and Budget Council of Economic Advisors Federal Mediation and Conciliation Service Agriculture: Agricultural Extension Service (part); Soil Conservation Service (part) r Farmers Home Administration technical assistance and Rural Renewal Administration; Office of Management Services; Consumer and Marketing Service Trust Pund; Rural Communities Development Service Commerce: Economic Development Administration (part) Office of Minority Business Enterprise Justice: Community Relations Service Labor: Labor-Management Relations Service Interior: Bureau of Mines resource development SBA:procurement and management assistance, counseling services White House Office: executive management improvement.

8011

Physicians Offices (51% prorated)

HEW: Public Health Service (parts); Migrant Health Services; Community Health Services; Contract Medical Care; Hospital Support prorated); Center for Disease Control; Alcohol, Drug Abuse, and Mental Health Administration (part); Community Mental Health Center Staffing

/A: medical care

DOD: allocated medical personnel

811

Legal Services

The Judiciary: The Supreme Court; The Courts of Appeals; The District Courts; The Court of Claims; The Court of Customs and Patent Appeals United States Tax Court DOD: Courts Martial National Commission for the Review of Federal and State Laws relating to Wiretapping and Electronic Surveillance Legal Services Corporation The Administrative Conference of the United States Commerce: Patent Office HEW: Civil Rights Enforcement Justice: Watergate Special Prosecution Force, general legal activities, expenses of bankruptcy referees HUD: fair housing and equal opportunity, Office of Interstate Land Sales Registration Labor: Office of Federal Contract Compliance, Wage and Hour Division investigation and compliance Library of Congress: Copyright Office Treasury: Bureau of Custom's (part); IRS hearings, rulings, and appeals Civil Service Commission: appeals All agencies: General Counsels, Legal Advisors, etc. All agencies: Drafting, interpreting, and enforcing substantive regulations

EXAMPLES OF PRIMARY INDUSTRIES IN THE FEDERAL GOVERNMENT - (Cont'd)

SIC

82

Education

DOD: The military academies Mid-Career Schools
Industrial College of the Armed Forces,
Naval War College, Staff and General
Command School; basic and vocational training;
training manual production; procurement of
trainer aircraft
HEW: National Institute of Education; Office of
Education (including/categorical grants)
Indian education, education for the handicapped, higher education, occupational,
vocational, and adult education
Interior: Bureau of Indian Affairs (part)
education, career development
Labor: Manpower Administration comprehensive manpower assistance (training programs)
VA: education and training

8231

Library Service

Library of Congress
National Commission on Libraries and Information
Science
Agriculture: National Agricultural Library
GSA: National Archives and Records Service
HEW: National Library of Medicine library resources
Smithsonian Institution: national museum programs

8931

Accounting and Bookkeeping Services

General Accounting Office
Cost Accounting Standards Board
Agriculture: Office of the Inspector General budget,
fiscal, and management
DOD: Defense Contract Audit Agency
BEW: Office of the Secretary audit agency
Treasury: Bureau of Accounts; Treasurer of the U.S.;
IRS collection, internal audit and security
BUD: audit
All agencies: Comptroller and internal program audit

TABLE 26:

EXAMPLES OF SECONDARY INDUSTRIES IN THE FEDERAL GOVERNMENT

Policy Planning

The Legislature

Office of Technology

Office of Telecommunications Policy

National Capital Planning Commission

Commerce: Office of Telecommunications; Regional Action; Planning Commissions

HUD: urban planning grants

IRS: policy planning

Justice: Law Enforcement Assistance Administration grants for development and and implementation of comprehensive (criminal justice) plans The President and the White House Office

Council on Environmental Quality

Appalachian Regional Commission

Agriculture: Farmers Home Administration rural water program planning

DOD: The Joint Chiefs of Staff

HEW: urban health planning, health planning and resources development, Office of the Secretary policy research

All agencies: the Secretaries Offices; Deputy and Assistant Secretaries Offices; other executive direction

Market Information Specialists .

Agriculture: Foreign Agricultural Service; Agricultural Marketing Service

DOD: Defense Supply Agency

HEW: National Institutes of Health Service and Supply fund

SBA: supply and procurement aid

Commerce: Business and Defense Services Adminitration promotion of industry and commerce

GSA: surplus property management and disposal (excludes real property transactions)

Interior: Bureau of Mines helium marketing: Bureau of Commercial Fisheries marketing

General Administration: Civilian

All residual administrative offices including items not amenable to detailed breakdown.

General Administration: Military

All military administration not accounted in the primary sector.



TABLE 27:

EXAMPLES OF SPECIALIZED GOVERNMENT INFORMATION SERVICES.

Foreign Intelligence Information

Central Intelligence Agency

Defense Intelligence Agency

National Security Agency

Military Intelligence Agencies

National Reconnaissance Office State: Office of Research and Intelligence

Domestic Intelligence Information

Subversive Activities Control Board

DCD: Military Intelligence Personnel (allocated portion)

Justice: FBI; Immigration and Naturalization Service; Law Enforcement Assistance Agency data and systems and statistical assistance; Drug Enforcement Agency

Treasury: Bureau of Customs; Bureau of Narcotics; Secret Service; IRS: compliance

Regulation of Industry

Federal Reserve System (part) . Environmental Protection Agency

Civil Aeronautics Board

Commodities Futures Trading Commission

Consumer Products Safety Commission

Equal Employment Opportunity Commission (part)

Farm Credit Administration

Federal Communications Commission

Federal Elections Commission

Federal Energy Administration

Federal Home Loan Bank Board

Federal Power Commission

Federal Maritime Commission

Interstate Commerce Commission

Federal Trade Commission

and Health Administration

Nuclear Regulatory Commission

National Credit Union Administration

Renegotiation Board

Securities and Exchange Commission

Agriculture: Animal and Plant Inspection Service; Commodity Exchange Authority

HEW: Food and Drug Administration

Justice: Antitrust Division

Interior: Mining Enforcement and Safety Administration

DOT: Coast Guard marine safety, motor carrier safety

Labor: Employment Standards Administration; Occupational Safety and

All agencies: Regulations implementing statutory authority of those agencies. For example, Army Corps of Engineers regulations regarding use of and construction in navigable waters.

TABLE 27:

EXAMPLES OF SPECIALIZED GOVERNMENT INFORMATION SERVICES - (Cont'd)

Statistical and Planning Information

Agriculture: Farmers Cooperative Service (part); Statistical Reporting Service Commerces Social and Economic Administration; Bureau of the Census

DOD: Corps of Engineers commercial statistics

HEW: Health Resources Administration health statistics

Labor: Bureau of Labor Statistics

Treasury: IRS statistical reporting

Other agencies conducting major statistical programs:

HEW: Office of Education, Public Health Service; Social Security Administration Interior: Bureau of Mines, Fish,

HUD

Justice: Drug Enforcement Agency; Law Enforcement

and Wildlife Service

Assistance Agency

Labors Manpower Administration

National Science Foundation

Environmental Protection Agency See generally: Budget of the

United States Government, Special Analyses, Part G

International Information Exchange and Diplomacy

State: most programs, including embassies, consulate services, and international commissions, organizations, and conferences

International Trade (Tariff) Commission

Arms Control and Disarmament Agency

National Security Council

Agency for International Development (expenses and financial investment incurred in the foreign aid and miliThe Peace Corps

tary assistance programs) DOD: Office of the Secretary

Foreign Claims Settlement Commission

international security affairs

Agriculture: Foreign Agriculture Service

Treasury: Exchange Stabilization Fund

Commerce: Domestic and International Business Administration (part)

Labor: Bureau of International Labor Affairs

Services Provided Free to Private Industry

National Commission on Productivity and Work Quality

DOD: Corps of Engineers; navigation, flood control, and beach erosion studies

Interior: Bureau of Reclamation general investigations; Geological Survey prospecting, mapping, etc.

Commerce: Domestic and International Business Administration (part) - international sales and activities; National Oceanic and Atmospheric Administration weather and flood forecasts, etc., earth mapping

DOT: Federal Aviation Administration; National Highway Traffic Safety Administration; Coast Guard search and rescue, aids to navigation; Federal Highway Administration program direction and coordination

TABLE 28: SOURCE OF RED FUNDS IN INPUT-OUTRUT. FORMAT

	and the second of the second o		OTHER	(\$ Millions FEDERAL	STATE & LOCAL		
PERFORMER	MANUFACTURING	UNIVERSITIES	NONPROFIT	GOVERNMENT	GOVERNMENT	TOTAL	=
Commercial R&D Labs	59.3		##	1,059.4	製作 章	1,118.7	
Manufacturing	7,972.7 (7,918.6)	•••		7,328.6	***	15,301.3 (7,918.6)	
Private Universities	26.7	80.6 (80.6)	66.2	1,214.9	30.3	1,418.7 (80.6)	٠.
State & Local Universities	21.3	371.2 (371.2)	52.8	867.1	270.9 (270.9)	1,583.3 (642.1)	,
Private Hospitals	bad	Na cá Př		90.0		90.0	
State & Local Hospitals	• • • • • • • • • • • • • • • • • • •		•*•	24.4	27.2 (27.2)	51.6 (27.2)	
Nonprofit R&D Labs	. 65.0		184.8 (92.4)	471.6		421.4 (92.4)	
Federal Government	•••			3,395.0 (3,395.0)		3,395.0 (3,395.0)	•
State & Local Government	i,		es ® es	67.8	70.0 (70.0)	137.8 (70.0)	
TOTAL	8,145.0 (7,918.6)	451.8 (451.8)	303.8 (92.4)	14,518.8 (3,395.0)	398.4 (368.1)	23,817.8 (12,225.9)	
• •							1

^aIn-house funding appears within parentheses.

Source: Provided by R. Siebern, BEA Government analyst. Data compiled by M. Rice, Based on National Science Foundation National Patterns of RED Resources, Table B-1, p. 27 (NSF 69-30). See also NSF Research and Development in Industry and Federal Funds for Research, Development and Other Scientific Activities, (NSF 68-27).

FOOTNOTES -

- Note that a change made at the 7-digit final demand or value added levels are reflected through every account at a higher level. Also, these changes alter the input-output tables of Chapter 6.
 - ²M. Teplin, "U.S. International Transactions in Royalties and Fees: Their Relationship to the Transfer of Technology," Survey of Current Business, Vol. 53, No. 12, December 1973.
 - 3Certain institutional arrangements for selling pure information raised serious antitrust issues in U.S. v. Westinghouse. In exchange for Westinghouse's designs, blueprints and process rights, the Mitsubishi Corporation agreed to stay out of Westinghouse's U.S. market.
 - J. Friedlin and L. Lupo, "U.S. Direct Investments Abroad in 1973," Survey of Current Business, Part II, Aûgust 1974. Additional unpublished data are available from the Bureau of Economic Analysis.
 - ⁵F.W. Dodge Inc., Annual Awards Statistics, McGraw-Hill Book Company, New York, annual data.
 - Grederal Communication Commission, Statistics of Communications Common Carriers, annual data.

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- ⁷Department of Commerce, "Government Employment."
- ⁸For Federal government employment statistics, see Civil Service Commission "Occupations of Federal White Collar Workers," (Bureau of Manpower Information Systems) and companion volume on "Blue Collar Workers," annual data. See also, "Pay Structure of the Federal Civil Service," annual data.

9 Detailed estimates were based on Office of Management and Budget, The Budget of the U.S. Government. Also, the Special Analyses were used for Federal research and development programs, educational programs, statistical and technical information and the cost of regulation. The Analyses were not consistent over time, and our procedures modified them as necessary.

10 See: National Science Foundation, "National Patterns of R&D Resources," 1953-1975; "Federal Funds for Research, Development and Other Scientific Activities," annual; "Researc and Development in Industry," annual; "R&D Activit s of Independent Nonprofit Institutions," annual. "An Analysis of Federal R&D Funding by Function," annual.

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